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THIRD EDITION.



THE



ORGAN,

ITS HISTORY AND CONSTRUCTION:

A COMPREHENSIVE TREATISE

ON THE

STRUCTURE & CAPABILITIES OF THE ORGAN,

WITH

SPECIFICATIONS AND SUGGESTIVE DETAILS FOR INSTRUMENTS OF ALL SIZES.

INTENDED AS A

HANDBOOK FOR THE ORGANIST AND THE AMATEUR.

BY

EDWARD J. HOPKINS,

*Organist to the Honourable Societies of the Inner and Middle Temple.*

PRECEDED BY AN ENTIRELY

NEW HISTORY OF THE ORGAN,

MEMOIRS OF THE MOST EMINENT BUILDERS OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES, AND  
OTHER MATTERS OF RESEARCH IN CONNECTION WITH THE SUBJECT.

BY

EDWARD F. RIMBAULT, LL.D.,

*Member of the Royal Academy of Music in Stockholm; Musical Examiner in the Royal College of  
Preceptors, London, &c., &c.*

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and improvements that have been made from time to time in the details of organ-building. This part of the design, however, has not been found by any means so easy of accomplishment as at first it might appear to be, for but few records were ever kept either of the date or the builder by whom such advantageous modifications were effected. An internal examination of numerous organs, and a comparison of their dates of construction have been made, with the view of arriving at a correct conclusion on all these points, and the result has been given; at the same time a date or fact may here or there have escaped the research of the writer, who will therefore be glad to receive any such testimony as may come under the notice of others, and which will be gratefully accepted and carefully preserved for future use. To account for the frequent appearance of names and dates in the descriptions of some of the more recent improvements, it may be mentioned that these have in all cases been given, where positively known, in the hope of obviating future uncertainty.

Among the most vexed questions of the present time regarding the English organ are those relating to the compass and the temperament of the instrument. To each of these subjects, therefore, a full chapter has been devoted, which, it is hoped, may have some influence in conducting them nearer towards a settlement. In these discussions, and indeed throughout the work, great pains have been taken to preserve as much simplicity of language and freedom from technicality as seemed practicable. Other matters of importance are those relating to the musical pitch, the composition of the compound stops, and the position of the organ, all of which have also been considered at some length.

The Appendix will be found to present a collection of specifications of British and foreign organs more varied in size and details, and more extensive in number, than has ever before been brought together in any similar work in any country. A few of

the English specimens are either accounts of instruments of past celebrity, or of such as were made according to a system now being fast superseded ; but most of the Continental descriptions, it is confidently hoped, will prove of the highest value to organists in exemplifying what are the general principles observed by the foreign artists, to the investigation of which the organ-builders and organists of this country, fortunately, are now almost universally turning their attention. The accounts of foreign organs have partly been prepared from notes made by the writer and other tourists at the instruments themselves, and partly from previously printed accounts, the stops, however, being in all cases re-arranged and classified according to one uniform and simple plan, so that they may be more convenient for purposes of reference and comparison. The descriptions of British organs have been drawn up, in some cases, from accounts kindly furnished by their respective organists ; in others, from well-known printed authorities ; while the particulars of the more recently constructed instruments have been extracted chiefly from the descriptions issued by their respective builders.

It remains for the writer to tender his thanks to those gentlemen who have kindly favoured him with their suggestions and opinions ; and he feels his acknowledgments to be particularly due to Mr. Hill and Mr. Walker, Mr. Robson and Mr. Jardine, for their exposition of certain technical matters ; and to the Rev. Sir Frederick Gore-Ouseley, Bart., and to C. Harwood Clark, Esq., for placing their MS. note-books, containing accounts of numerous foreign organs, so entirely at his disposal.

EDWARD J. HOPKINS.

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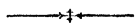
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AN HISTORICAL ACCOUNT

OF

THE ORGAN.

BY


EDWARD F. RIMBAULT, LL.D.,

&c., &c.



## PREFACE TO THE FIRST EDITION.

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HEN I undertook to prefix to my friend Mr. Hopkins's valuable treatise on the construction of the organ an historical account of that noble instrument, my intention was to give a *résumé* of what had already been written, with the addition of such new particulars as the course of years had accumulated in my note-books; but, upon collating the various writers, their statements often appeared so vague and unsatisfactory that it became necessary to consider the subject more attentively, and in all cases, where it could be done, to consult *original* authorities. The result of this examination has been the clearing up of many doubtful points, and the discovery of some important particulars hitherto unknown.

All modern writers have been perplexed with the notices of the organ handed down to us by the ancient Greeks, and have endeavoured to reconcile them with our present ideas of the instrument. The *key-board* has been a constant source of difficulty, and the epigram, or rather enigma, of the Emperor Julian has been often cited to prove that it was known to the ancients. The discovery of a treatise on organ-building by a monk of the eleventh century (printed in the following pages) settles for ever this important question.

Another source of difficulty is the common expression, in mediæval times, of "a pair of organs." Some of our ablest anti-quaries have exercised their erudition in endeavouring to explain

this term, but with what degree of success the reader who peruses the following pages will have an opportunity of judging.

At a later period in the History of the Organ the biographies of Smith and Harris have been involved in much obscurity. Father Smith has *fathered* all our *old* organs, of whatever kind or description; and so little attention has been paid to dates that we are told "Harris's most celebrated organs are those of St. Sepulchre's, London, 1667; and Doncaster, Yorkshire, 1738!" I have been enabled to arrange the various members of these two celebrated families under their respective periods, and by so doing have cleared away many anachronisms, and reconciled a few seeming impossibilities.

The Jordans and the Byfields, and their foreign cotemporaries, the Silbermanns, have also received the same attention; and, if the information regarding them is somewhat scant, it is all my research has been able to bring together.

The section on the "Ancient Position of the Organ" is interesting at the present time, when architects are anxiously looking for precedents. I have carefully noted all the authorities upon the point, especially in this country, which, added to Mr. Hopkins's able chapter on the "Situation of the Organ," will, it is hoped, be found of some practical utility. The rescue of this noble instrument from the "holes and corners" to which modern ecclesiologists have oftentimes assigned it is part of the musician's creed.

It will be observed that my historical account deals more with facts than with opinions. For the latter I am content to refer to the body of the book, trusting with full confidence to Mr. Hopkins's superior judgment and intimate acquaintance with his subject.

The History of the Organ, from the period at which I leave it, chiefly consists in a series of inventions, all of which receive their full share of attention from Mr. Hopkins in the course of the volume.

I ought not to pass unnoticed the aid I have received from several authors who have written upon the same subject. Amongst them I may especially name the Rev. Sir William Cope's paper on *Early Organ-builders in England*, inserted in the *Parish Choir*; Mr. Sutton's *Short Account of Organs built in England from the reign of King Charles the Second to the present time*; Herr Seidel's *Treatise on the Organ*, printed at Breslau; and M. Hamel's valuable reprint of "Dom Bedos," forming one of the publications of the *Encyclopédie-Roret*. If I have not named other modern works purporting to treat of the organ historically, it is because I have found them unworthy of credit.

It only remains to tender my obligations to those gentlemen who have kindly assisted me in the course of the following essay. I must especially thank my friend, F. W. Fairholt, Esq., F.S.A., for the valuable extracts from Mr. Rolfe's MSS., and for other information; William Chappell, Esq., F.S.A., for two or three curious notices; Mr. Hill, the eminent organ-builder, for the loan of G. P. England's Account Book; Alfred Price, Esq., of Gloucester, for his MS. translation of Herr Seidel's *Treatise on the Organ*, before mentioned; and lastly, Robert Hendrie, Esq., for his kindness in giving me permission to use his excellent translation of Theophilus's *Chapters on the Organ*.

EDWARD F. RIMBAULT.

29, ST. MARK'S CRESCENT, REGENT'S PARK,  
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## A LIST OF FOREIGN AND ENGLISH EQUIVALENT TERMS.

As many of the names which appear in the foregoing accounts of Continental organs may not be familiar to some readers, the following table of the chief Foreign Stops, with their English equivalents, when they exist, and a brief notice of them when they do not, has been prepared, which, it is hoped, may assist those who may not be able to decipher the foreign nomenclature.

*Manual Stops.*

- Grosse Principal, 32 feet.—Double Double Open Diapason, 32 feet.  
 Montre, 32 feet.—The same, "mounted," or in "front."  
 Sub-Bourdon, 32 feet tone.—Double Double Stopped Diapason, 32 feet tone.  
 Manual-Untersatz, 32 feet tone.—The same.  
 Bourdon, or Bordun, 32 feet tone.—The same.  
 Principal, 16 feet.—Double Open Diapason, 16 feet.  
 Montre, 16 feet.—The same, "mounted," or in "front."  
 Prestant, 16 feet.—The same.  
 Gamba Major, 16 feet.—Great, or Double Gamba, 16 feet.  
 Salicional, 16 feet.—Reedy Double Dulciana, 16 feet.  
 Bourdon, or Bordun, 16 feet tone.—Double Stopped Diapason, 16 feet tone.  
 Tibia Major, 16 feet tone.—The same.  
 Gross Gedact, 16 feet tone.—The same.  
 Lieblich Gedact, 16 feet tone.—Double Stopped Diapason, of slender scale and sweet intonation.  
 Rohrflöte, 16 feet tone.—Double Stopped Diapason, of metal pipes with chimneys.  
 Quintaton, 16 feet tone.—Double Stopped Diapason, of rather small scale, producing the Twelfth of the fundamental sound, as well as the ground tone itself—*i.e.*, sounding the 16 and  $5\frac{1}{3}$  feet tones—16 feet tone.  
 Octave, 8 feet.—Octave to the "Principal" or *Double* Open Diapason of 16 feet, and therefore identical with the *Unison* Open Diapason, 8 feet.  
 Principal, 8 feet.—Open Diapason, 8 feet.  
 Montre, 8 feet.—The same.  
 Flute, 8 feet.—The same.  
 Geigen Principal, 8 feet.—Violin or crisp-toned Diapason, 8 feet.  
 Gamba, or Viol di Gamba, 8 feet.—Bass Viol Unison stop, of smaller scale and thinner, but more pungent tone than the Violin Diapason, 8 feet.  
 Fugara, 8 feet.—A species of small-scale Gamba, of bright and cutting tone, and slow speech, 8 feet.  
 Salicional, 8 feet.—Dulciana of reedy quality, 8 feet.  
 Flauto Traverso, 8 feet.—German Flute, formed of cylindrical pipes of pear-tree wood, and sounding their octave in the Treble, 8 feet.  
 Hohlflöte, 8 feet.—Hollow Flute, a kind of Clarabella, 8 feet.  
 Harmonica, 8 feet.—A unison open wood stop, sometimes smaller in the treble and larger in the bass than the Hohlflöte, 8 feet.  
 Spitzflöte, 8 feet.—Spire or Taper Flute, a unison open metal stop, formed of pipes with conical bodies, 8 feet.  
 Gemshorn, 8 feet.—Goat Horn, a unison open metal stop, more conical than the Spitzflöte, 8 feet.  
 Coppel, 8 feet.—Coupling-flute, a kind of stopped Diapason or Clarabella, intended to be used chiefly in combination with some other stop—as the Stopped Diapason is used with the Clarinet in England—hence its name, 8 feet.  
 Portunal-flaut, 8 feet.—An open wood stop, of the Clarabella species, the pipes of which are larger at top than at bottom, and producing a tone of Clarinet quality, 8 feet.  
 Bifara, 8 feet.—A unison open stop, formed of pipes having two mouths, the speech of which is accompanied by a pleasing undulation, 8 feet.

- Unda Maris**, 8 feet.—Wave of the Sea. A unison open stop, tuned rather sharper than the other stops, and producing an undulating or waving effect when drawn in conjunction with another stop, 8 feet.
- Voix Céleste**, 8 feet.—A stop of II ranks, resembling Dulcianas, one of which is tuned sharper than the other, producing an undulating effect like that of the Unda Maris, 8 feet.
- Blockflöte**, 8 feet.—Common or ordinary Flute, formed of pipes larger than Diapason scale, 8 feet.
- Portunal**, 8 feet.—An open wood stop, of the Clarabella species, but with the pipes larger at top than at bottom, and producing a tone like that of the Clarionet, 8 feet.
- Flauto Dolce**, 8 feet.—A unison Flute stop, of tranquil and agreeable tone, well adapted for cantabile music, for which an Open Diapason would be both too strong and too full, 8 feet.
- Gedact**, 8 feet tone.—Covered stop. Stopped Diapason, 8 feet tone.
- Liebtich Gedact**, 8 feet tone.—Stopped Diapason, of slender scale and sweet intonation, 8 feet tone.
- Still Gedact**, 8 feet tone.—Stopped Diapason, of quiet tone, 8 feet tone.
- Rohrflöte**, 8 feet tone.—Reed Flute. Metal Stopped Diapason, with reeds, tubes, or chimneys, 8 feet tone.
- Quintaton**, 8 feet tone.—Stopped Diapason, producing the Twelfth as well as the ground-tone—*i.e.*, sounding the 8 and  $2\frac{2}{3}$  feet tones—8 feet tone.
- Nacht Horn**, 8 feet tone.—Night Horn. Nearly identical with the foregoing, but of larger scale, and more horn-like in tone, 8 feet tone.
- Quint**,  $5\frac{1}{3}$  feet.—Fifth-sounding stop. In this case producing the Fifth above the Diapason,  $5\frac{1}{3}$  feet.
- Grosse Nazard**, Nasard, Nassat, Nasat,  $5\frac{1}{3}$  feet.—Fifth to the Unison Diapason,  $5\frac{1}{3}$  feet.
- Gemshorn-quint**,  $5\frac{1}{3}$  feet.—Fifth composed of Gemshorn pipes,  $5\frac{1}{3}$  feet.
- Quint Gedact**,  $5\frac{1}{3}$  feet tone.—Stopped Fifth,  $5\frac{1}{3}$  feet tone.
- Roer-quint**,  $5\frac{1}{3}$  feet tone.—Stopped Fifth, formed of metal pipes with chimneys,  $5\frac{1}{3}$  feet tone.
- Super-octave**, 4 feet.—The second octave or Fifteenth above the "Principal," or Double Open Diapason of 16 feet, identical with the English Principal, 4 feet.
- Octave**, 4 feet.—The Octave to the Open Diapason of 8 feet. The English Principal, 4 feet.
- Principal**, 4 feet.—Principal, 4 feet.
- Prestant**, 4 feet.—The same, 4 feet.
- Spitzflöte**, 4 feet.—Octave stop, formed of conical pipes, 4 feet.
- Geigen Principal**, 4 feet.—Violin Principal, 4 feet.
- Gambette**, 4 feet.—Small Gamba, or Octave Gamba, 4 feet.
- Salicional Octave**, 4 feet.—Octave Salicional, 4 feet.
- Flauto Traverso**, 4 feet.—German Flute, the Treble pipes sounding their Harmonic, or Octave, 4 feet.
- Hohlflöte**, 4 feet.—A kind of Octave Clarabella, 4 feet.
- Flaut-à-becq**, 4 feet.—Flute with beak or mouth-piece at one end. The old English Flute, 4 feet.
- Klein Gedact**, 4 feet tone.—Small Covered stop. Stopped Flute, 4 feet tone.
- Rohrflöte**, 4 feet tone.—Stopped metal Flute, with reeds, tubes, or chimneys, 4 feet tone.
- Grosse Tierce**,  $3\frac{1}{3}$  feet.—Great Third-sounding Stop. In this case producing the Third above the Principal. Tenth or Decima,  $3\frac{1}{3}$  feet.
- Quinte**,  $2\frac{2}{3}$  feet.—Fifth-sounding stop when of this size, producing the Fifth above the Principal Twelfth, or Duodecimo,  $2\frac{2}{3}$  feet.
- Gemshorn-quint**,  $2\frac{2}{3}$  feet.—Twelfth, formed of Gemshorn pipes,  $2\frac{2}{3}$  feet.
- Nasard**,  $2\frac{2}{3}$  feet.—Twelfth,  $2\frac{2}{3}$  feet.
- Sedecima**, 2 feet.—The third octave, Octave Fifteenth, or Twenty-second, above the "Principal" or Double Open Diapason of 16 feet. Identical with the English "Fifteenth," 2 feet.
- Super-octave**, 2 feet.—The second Octave above the Unison "Principal." The Fifteenth, 2 feet.
- Octave**, 2 feet.—Octave to the Principal of 4 feet, 2 feet.
- Doublette**, 2 feet.—The same, 2 feet.
- Quarte de Nazard**, 2 feet.—The same.

- Quinta-decima, 2 feet.—The Fifth above the Tenth—*i.e.*, the Fifteenth, 2 feet.  
 Gemshorn, 2 feet.—Gemshorn Fifteenth, 2 feet.  
 Waldflöte, 2 feet.—Forest-flute, 2 feet.  
 Hohlfloete, 2 feet.—Hollow Flute, of Fifteenth pitch, 2 feet.  
 Rausch-pfeif, 2½ feet.—Twelfth and Fifteenth on one slider, 2½ feet.  
 Rausch-quint, 2½ feet.—The same.  
 Flageolet, 2 feet.—Flageolet, 2 feet.  
 Terz, 1½ foot.—Tierce, when of this size, sounding the Third above the Fifteenth, 1½ feet.  
 Sexte, 2½ feet.—Sixth. A II-rank Mutation stop, sounding the interval of a major sixth. A Twelfth and Tierce on one slider, 2½ feet.  
 Sesquialtera, 2½ feet.—Sesquialtera, II ranks; the same, 2½ feet.  
 Quinta, 1½ foot.—Fifth-sounding stop, producing the Fifth above the Fifteenth. The Nineteenth or Larigot, 1½ foot.  
 Tertian, 1½ foot.—A II-rank Mutation stop, sounding the interval of a minor third. A Tierce and Larigot on one slider, 1½ foot.  
 Sedecima, 1 foot.—Twenty-second or Octave Fifteenth, 1 foot.  
 Mixture, 2 feet.—A mixed Stop—*i.e.*, consisting of Foundation and Mutation ranks of pipes, compounded together, the largest rank being usually a Fifteenth, 2 feet.  
 Scharf, 1½ foot.—Sharp, also a mixed stop, composed of smaller pipes than the Mixture, or on a smaller scale, and sometimes containing a Tierce, particularly if the Mixture has not one, 1½ foot.  
 Cymbel, 1 foot.—The most acute of the bright stops, being very small in scale, and high in pitch—it is sometimes formed exclusively of octave ranks—1 foot.  
 Cornet.—Cornet, frequently a Compound stop, formed of pipes several scales larger than Diapason measure, and producing a “horny” tone; hence its name. Sometimes the Cornet is a large Manual Reed, as at Freiburg and Seville; in other examples it is a small Pedal Reed, as at Muhlhausen, Merseburg, &c.  
 Contra Fagott, 32 feet.—Double Double Bassoon, 32 feet.  
 Tromba, 16 feet.—Double Trumpet, 16 feet.  
 Tuba, 16 feet.—The same.  
 Trompet, 16 feet.—The same.  
 Dulcian, 16 feet.—Dulcian means, literally, a small Bassoon. In this case, a Double Bassoon, 16 feet.  
 Fagotto, 16 feet.—Double Bassoon, 16.  
 Bombarde, 16 feet.—Double Reed, 16 feet.  
 Euphone, 16 feet.—Double Reed, 16 feet.  
 Phisarmonica, 16 feet.—Double Reed, with Free Reeds, and Tubes of half length, 16 feet tone.  
 Grand Cornet, 16 feet.—Double Reed, 16 feet.  
 Corneta—Double Reed.  
 Trompette, 8 feet.—Trumpet, 8 feet.  
 Trompette Harmonique, 8 feet.—Harmonic Trumpet, 8 feet.  
 Hautbois, 8 feet.—Hautboy, 8 feet.  
 Cor Anglais, 8 feet.—English Horn, 8 feet.  
 Dulcian, 8 feet.—Bassoon, 8 feet.  
 Fagotto, 8 feet.—The same.  
 Krumhorn, 8 feet tone.—Clarionet, 8 feet tone.  
 Cromhorn, 8 feet tone.—The same.  
 Schalmay, 8 feet tone.—The same.  
 Vox Humana, 8 feet tone.—Human Voice, 8 feet tone.  
 Clarin, 4 feet.—Clarion, 8 feet tone.

#### *Pedal Stops.*

- Sub-principal, 32 feet.—“Under Principal,” *i.e.*, below the Pedal Diapason pitch. Double Open Bass, 32 feet.  
 Gross Principal, 32 feet.—Great or Double Diapason Bass, 32 feet.  
 Prestant, 32 feet.—The same.

Flute Ouverte, 32 feet.—The same.

Untersatz, 32 feet tone.—“Below position,” *i.e.*, under the Pedal Unison pitch. Double Stopped Bass, 32 feet tone.

Sub-bass 32 feet tone.—“Under Bass,” or Double Stopped Bass, 32 feet tone.

Quintaton, 32 feet tone.—Double Stopped Bass, sounding the Twelfth as well as the ground tone, in this case producing the 32 and 10 $\frac{2}{3}$  feet tones.

Grand Bourdon, 32 feet tone.—Great or Double Bourdon, 32 feet tone.

Gross Quinten Bass, 21 $\frac{1}{2}$  feet tone.—Fifth to the Great Bass of 32 feet, 21 $\frac{1}{2}$  feet tone.

Principal Bass, 16 feet.—Open Diapason Bass, 16 feet.

Octave, 16 feet.—The same.

Prestant, 16 feet.—The same. Where there is a Metal “Principal” of 16 feet on the same Pedal, the name Prestant is applied to a *wood* Open Bass of the same size.

Flute Ouverte, 16 feet.—The same.

Violone, 16 feet.—Double Bass. A unison open wood stop, of much smaller scale than the Diapason, and formed of pipes that are a little wider at the top than at the bottom, and furnished with ears and beard at the mouth. The tone of the Violone is crisp and resonant, like that of the orchestral Double Bass; and its speech being a little slow, it has the Stopped Bass always drawn with it; 16 feet.

Gamba, 16 feet.—Gamba Bass, 16 feet.

Salicet, 16 feet.—Dulciana Bass, 16 feet.

Sub-bass, 16 feet tone.—Stopped Bass, usually, but sometimes Open wood, 16 feet, 16 feet tone.

Bourdon, 16 feet tone.—This name is very rarely applied to a Pedal stop. When it is so, it is generally to a Stopped Bass, though occasionally to a wood open Bass, 16 feet, 16 feet tone.

Quintaton, 16 feet tone.—A small scale unison covered stop, sounding the Twelfth as well as the ground tone—*i.e.*, producing the 16-feet and 5 $\frac{1}{3}$  feet tones—16 feet tone.

Gross Quint, Stopped, 10 $\frac{2}{3}$  feet tone.—Great Fifth, Stopped, 10 $\frac{2}{3}$  feet tone.

Roer-quint, 10 $\frac{2}{3}$  feet tone.—Stopped Fifth, formed of pipes with reeds, tubes, or chimneys, 10 $\frac{2}{3}$  feet tone.

Octave, 8 feet.—Octave, or Principal to the Diapason of 16 feet, 8 feet.

Violoncello, 8 feet.—Crisp-toned open stop, of small scale. The “Octave” to the Violone of 16 feet, 8 feet.

Bass Flute, 8 feet tone.—Flute Bass. The Stopped Octave to the Stopped Bass of 16 feet tone, 8 feet tone.

Tertia, 6 $\frac{2}{3}$  feet.—Tenth, or Great Tierce, 6 $\frac{2}{3}$  feet.

Quint, 5 $\frac{1}{3}$  feet.—Twelfth, 5 $\frac{1}{3}$  feet.

Rohr-quint, 5 $\frac{1}{3}$  feet tone.—Stopped Twelfth, 5 $\frac{1}{3}$  feet tone.

Super-octave, 4 feet.—Fifteenth, 4 feet.

Mixtur, V ranks.—Mixtur, V ranks, 4 feet.

Cornet, VIII ranks.—Pedal Cornet.

Contra Posaune, 32 feet.—Double Trombone, 32 feet.

Posaune, 16 feet.—Trombone, 16 feet.

Bombarde.—Large Unison Pedal Reed, 16 feet.

Fagotto, 16 feet.—Bassoon, 16 feet.

Dulcian, 16 feet.—Small Bassoon, 16 feet.

Trompet, 8 feet.—Trumpet, 8 feet.

Trombone, 8 feet.—Large Octave Reed, 8 feet.

Basson, 8 feet.—Octave Bassoon, 8 feet.

Krummhorn, 8 feet.—Cremona, 8 feet tone.

Clairon, 4 feet.

Cornet, 4 feet.

Cinq, 2 feet.

Cornet, 2 feet.

Clarion, 4 feet.

Cornet.—A small Reed Clairon, 4 feet.

Octave Clarion, 2 feet.

Octave Clairon, 2 feet.

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## APPENDIX.



# APPENDIX,

CONTAINING

## AN ACCOUNT OF FOREIGN AND BRITISH ORGANS.



### I. HAARLEM.

THE organ in the Cathedral Church of St. Bevan, in this city, has long been celebrated in the annals of organ-building as one of the largest, as well as one of the finest, instruments in the world. It was built by Christian Muller, of Amsterdam, and was nearly three years and a half in course of construction ; it having been commenced on the 23rd of April, 1735, and finished on the 13th of September, 1738. The Haarlem organ has 60 sounding stops, among which are two of 32 feet, and eight of 16 feet ; and all the stops are whole ones, excepting the Cornets and the Hautboy in the Great organ. Many of the stops, further, have two pipes to each key in the treble. This is the case with the Prestant of 16 feet (Double Open Diapason), which not only extends throughout the entire range of the Great Manual, but has duplication pipes from the middle b key (gamut B pipe) upwards. The octave, of 8 feet (Open Diapason), also has two pipes to a note, commencing on the same key. The Prestant of 8 feet (Open Diapason), on the Choir Manual, similarly has two pipes to every note, commencing as low down in the scale as gamut G ; and the corresponding stop (Prestant) in the Echo also has double pipes, beginning at middle b. The ranks of Mixture likewise increase in number as the scale ascends. All the stops are made of metal, excepting the Pedal Sub-Bass, which is of wood, and is a subsequent insertion. The front pipes, which include the Pedal "Sub-Principal" of 32 feet, are of pure English tin, burnished ; and all the interior metal pipes are formed of a composition consisting of half tin and half lead. The 32-foot pipe, which is 15 inches in diameter and nearly 40 feet long, stands in one of the chief towers. The instrument, with its magnificent case, altogether cost about £12,000. The following is a list of its stops :—

#### *Great, 16 Stops, 1209 Pipes.*

Pipes.			Pipes.		
1. Prestant .....	16 feet .....	78	9. Quint Prestant .....	2½ feet .....	51
2. Bourdon .....	16 feet tone .....	51	10. Woodfluit.....	2 feet .....	51
3. Octaav .....	8 feet .....	78	11. Tertian, II ranks	1 foot .....	102
4. Roerfluit.....	8 feet tone .....	51	12. Mixture, VI, VIII, and X ranks ...		339
5. Viol di Gamba ...	8 feet .....	51	13. Trompet .....	16 feet .....	51
6. Roerquint .....	5½ feet tone.....	51	14. Trompet .....	8 feet .....	51
7. Octaav .....	4 feet .....	51	15. Hautbois .....	8 feet .....	51
8. Gemshorn .....	4 feet .....	51	16. Trompet .....	4 feet .....	51

*Choir, in front, 14 Stops, 1268 Pipes.*

		Pipes.			Pipes.
17. Prestant .....	8 feet .....	95	24. Sesquialtera, II, III, and IV ranks		144
18. Quintadena .....	8 feet tone .....	51	25. Mixtur, VI, VII, and VIII ranks...		360
19. Hohlfluit .....	8 feet .....	51	26. Cimbél, II ranks .....		102
20. Octaav .....	4 feet .....	51	27. Cornet, V ranks .....		108
21. Fluit-doux .....	4 feet .....	51	28. Fagot .....	16 feet .....	51
22. Speelfluit .....	2½ feet .....	51	29. Trompet .....	8 feet .....	51
23. Super-octaav ...	2 feet .....	51	30. Regal .....	8 feet .....	51

*Echo, 15 Stops, 1098 Pipes.*

31. Quintadena .....	16 feet tone .....	51	39. Flageolet .....	1½ foot.....	51
32. Prestant .....	8 feet .....	81	40. Sesquialtera, II ranks.....		102
33. Baarpypp .....	8 feet .....	51	41. Mixtur, IV, V, and VI ranks .....		246
34. Quintadena .....	8 feet tone .....	51	42. Cimbél, IV ranks .....		108
35. Octaav .....	4 feet .....	51	43. Schalmey .....	8 feet .....	51
36. Flagfluit .....	4 feet .....	51	44. Dulcian .....	8 feet .....	51
37. Nassat .....	2½ feet .....	51	45. Vox Humana ...	8 feet .....	51
38. Nachthorn ....	2 feet .....	51			

*Pedal, 15 Stops, 513 Pipes.*

46. Sub-principal ...	32 feet .....	27	54. Hohlfluit .....	2 feet .....	27
47. Prestant .....	16 feet .....	27	55. Ruisquint, V ranks 2½ feet ..		27
48. Sub-bass .....	16 feet .....	27	56. Buzain .....	32 feet .....	27
49. Roerquint.....	10½ feet tone.....	27	57. Buzain ..	16 feet .....	27
50. Octaav .....	8 feet .....	27	58. Trompet .....	8 feet .....	27
51. Hohlfluit .....	8 feet .....	27	59. Trompet .....	4 feet .....	27
52. Quint .....	5½ feet tone.....	27	60. Cinq ..	2 feet .....	27
53. Octaav .....	4 feet .....	27			

*Accessory Stops, Movements, &c.*

1. Coupler, Choir to Great.
  2. Coupler, Echo to Great.
  3. 4. Two Tremulants.
  5. Wind to Great organ.
  6. Wind to Choir organ.
  7. Wind to Echo organ.
  8. Wind to Pedal organ.
- Twelve Bellows, 9 feet by 5.

*Compass.*

Manuals, CC to d<sup>3</sup> in alt., 51 notes.  
Pedals, CCC to tenor d, 27 notes.

*Number of Pipes.*

Great .....	1209
Choir .....	1268
Echo .....	1098
Pedal .....	513

Total..... 4088

## 2. ROTTERDAM.

The organ in the Cathedral Church of St. Lawrence, situated at the upper part of Rotterdam, is a very fine and powerful instrument, and will, when completed, be one of the largest in the world. It already contains 75 stops, and is designed to have 92. Its pipes at present amount in number to about 5,700, the largest of which, standing in front, measures 32 feet speaking length, and 16 inches in diameter. Among the stops are included 3 of 32 feet, and 12 of 16 feet. The distribution of its stops is as follows:—

*Great, 18 Stops.*

1. Prestant .....	16 feet.	10. Octave .....	2 feet.
2. Bourdon .....	16 feet tone.	11. Woudfluit .....	2 feet.
3. Octave .....	8 feet.	12. Sesquialtera, II ranks.....	2½ feet.
4. Prestant .....	8 feet.	13. Mixtur, IV, V, and VI ranks.	
5. Holspeif .....	8 feet.	14. Scharf, IV and V ranks.	
6. Quint .....	5½ feet.	15. Cornet, VI ranks.	
7. Octave .....	4 feet.	16. Trompet .....	16 feet.
8. Speelfluit .....	4 feet.	17. Dulcian .....	16 feet.
9. Quint .....	2½ feet.	18. Trompet .....	8 feet.

*Positif, 18 Stops.*

19. Bourdon .....	16 feet tone.	28. Gemshorn .....	2 feet.
20. Prestant .....	8 feet.	29. Sesquialtera, II ranks .....	2½ feet.
21. Roerfluit .....	8 feet tone.	30. Mixtur, VI and VII ranks.	
22. Fluit Traverse, discant .....	8 feet.	31. Mixtur, IV and V ranks.	
23. Dolce .....	8 feet.	32. Cornet, VI ranks.	
24. Octaav .....	4 feet.	33. Fagot .....	16 feet.
25. Roerfluit .....	4 feet tone.	34. Trompet .....	8 feet.
26. Gemshorn .....	4 feet.	35. Oboe .....	8 feet.
27. Octaav .....	2 feet.	36. Fagot .....	8 feet.

*Choir, 15 Stops.*

37. Quintadena .....	16 feet tone.	45. Octaav .....	2 feet.
38. Prestant .....	8 feet.	46. Fluit .....	2 feet.
39. Quintadena .....	8 feet tone.	47. Flageolet .....	1 foot.
40. Gamba .....	8 feet.	48. Cornet, III ranks.	
41. Holpfeif .....	8 feet.	49. Vox Humana .....	8 feet tone.
42. Octaav .....	4 feet.	50. Schalmey .....	8 feet.
43. Open fluit .....	4 feet.	51. Carillon, III ranks.	
44. Roerfluit .....	4 feet tone.		

*Echo, 8 Stops.*

52. Bourdon .....	8 feet tone.	56. Vox Angelica .....	8 feet.
53. Salicional .....	8 feet.	57. Salicional .....	4 feet.
54. Barpfeif .....	8 feet.	58. Fluit .....	4 feet.
55. Gamba .....	8 feet.	59. Gemshorn .....	2 feet.

*Pedal, 16 Stops.*

60. Prestant .....	32 feet.	68. Octaav .....	8 feet.
61. Sub-bass .....	32 feet tone.	69. Octaav .....	4 feet.
62. Prestant .....	16 feet.	70. Octaav .....	2 feet.
63. Sub-bass .....	16 feet.	71. Buzian .....	32 feet.
64. Bourdon .....	16 feet tone.	72. Buzian .....	16 feet.
65. Prestant .....	16 feet.	73. Trombone .....	8 feet.
66. Quint .....	10½ feet.	74. Trompet .....	4 feet.
67. Prestant .....	8 feet.	75. Cinq .....	2 feet.

*Accessory Stops, Movements, &c.*

1. Coupler, Echo to Choir.	4. Coupler, Great to Pedal.
2. Coupler, Choir to Great.	5, 6. Two Tremulants.
3. Coupler, Positif to Great.	7, 8, 9, 10, 11. Five Wind-trunk valves.

*Compass.*

Manuals, CC to f<sup>3</sup> in alt., 54 notes. | Pedal, CCC to tenor f, 30 notes.

## 3. ROTTERDAM.

The organ in the Octagon Church at Rotterdam was built by Batz, of Utrecht, in 1850, and is a very fine instrument. It has three Manuals and a Pedal of 8 stops, and is one of the very few German organs which have a Swell and Composition Pedals. The following is an enumeration of its Stops, &c. :—

*Great, 13 Stops.*

1. Prestant .....	16 feet.	8. Octaaf .....	2 feet.
2. Octaaf .....	8 feet.	9. Mixtur, VIII ranks.	
3. Gemshorn .....	8 feet.	10. Cornet, V ranks.	
4. Bourdon .....	8 feet tone.	11. Fagot .....	16 feet.
5. Octaaf .....	4 feet.	12. Trompet .....	8 feet.
6. Fluit .....	4 feet.	13. Clarinet .....	4 feet.
7. Quint .....	2½ feet.		

*Choir, 11 Stops.*

14. Bourdon .....	16 feet tone.	20. Nazard .....	2½ feet.
15. Prestant .....	8 feet.	21. Woudfluit .....	2 feet.
16. Viol di Gamba .....	8 feet.	22. Cornet, V ranks.	
17. Roerfluit .....	8 feet tone.	23. Trompet .....	8 feet.
18. Octaaf .....	4 feet.	24. Dulcian .....	8 feet.
19. Open-fluit .....	4 feet.		

*Swell, 8 Stops.*

25. Gamba .....	8 feet.	29. Roerfluit .....	4 feet tone.
26. Salicional .....	8 feet.	30. Gemshorn .....	2 feet.
27. Holpyp .....	8 feet.	31. Schalmcy .....	8 feet.
28. Salicional .....	4 feet.	32. Vox Humana .....	8 feet.

*Pedal, 8 Stops.*

33. Prestant .....	16 feet.	37. Octaaf .....	4 feet.
34. Sub bass .....	16 feet tone.	38. Buzian .....	16 feet.
35. Octaaf .....	8 feet.	39. Trombone .....	8 feet.
36. Fluit Bass .....	8 feet.	40. Trompet .....	4 feet.

*Accessory Stops, Movements, &c.*

1. Swell to Choir.	5. Octave Pedal.
2. Choir to Great.	6, 7, 8, 9. Four Wind-trunk valves.
3. Tremulant Swell.	10, 11, 12. Three Composition Pedals.
4. Great to Pedal.	

*Compass.*

Manuals, CC to f<sup>3</sup> in alt., 54 notes. | Pedal, CCC to tenor f, 30 notes.

## 4. AMSTERDAM.

The organ in the old church at Amsterdam was begun by R. B. Druyschot in 1683, and finished by him in 1686. It is a most effective instrument; all the Foundation stops are *doubled*, which increases the fulness and solidity of the tone. The Reed stops and Mixtures are also very good, and the mechanism is very fair for so old an organ. This instrument contains 51 stops, distributed as follows :—

*Great, 16 Stops.*

1. Prestant .....	16 feet.	9. Octaaf .....	2 feet.
2. Bourdon .....	16 feet tone.	10. Fluit .....	2 feet.
3. Octaaf .....	8 feet.	11. Flageolet .....	1 foot.
4. Holpyp .....	8 feet.	12. Sesquialtera, IV ranks ...	2½ feet.
5. Quint .....	5½ feet.	13. Mixtur, VI, VII, and VIII ranks.	
6. Octaaf .....	4 feet.	14. Scherp, VI ranks.	
7. Roerfluit .....	4 feet tone.	15. Trompet .....	16 feet.
8. Roerquint .....	2½ feet tone.	16. Trompet .....	8 feet.

*Choir, 12 Stops.*

17. Prestant .....	8 feet.	23. Quint .....	2½ feet.
18. Gedact .....	8 feet tone.	24. Octaaf .....	2 feet.
19. Quintaton .....	8 feet tone.	25. Sesquialtera, IV ranks ...	2½ feet.
20. Dulciana .....	8 feet.	26. Mixtur, VII and VIII ranks.	
21. Octaaf .....	4 feet.	27. Scherp, VI ranks.	
22. Fluit .....	4 feet.	28. Trompet .....	8 feet.

*Echo, 13 Stops.*

29. Quintadeen .....	16 feet tone.	36. Super-octaaf .....	2 feet.
30. Prestant .....	8 feet.	37. Sesquialtera, III ranks ..	2½ feet.
31. Baarpyp .....	8 feet.	38. Cimbél, III ranks.	
32. Gamba .....	8 feet.	39. Fagot .....	16 feet.
33. Octaaf .....	4 feet.	40. Trompet .....	8 feet.
34. Gemshorn .....	4 feet.	41. Vox Humana .....	8 feet.
35. Nasat .....	2½ feet.		

*Pedal, 10 Stops.*

42. Prestant .....	16 feet.	47. Nachthorn .....	2 feet.
43. Sub-bas .....	16 feet tone.	48. Buzian .....	16 feet.
44. Octaaf .....	8 feet.	49. Trompet .....	8 feet.
45. Roerquint .....	5½ feet tone.	50. Trompet .....	4 feet.
46. Octaaf .....	4 feet.	51. Cornetin .....	2 feet.

*Accessory Stops, Movements, &c.*

1. Coupler, Echo to Great.	3. Coupler, Great to Pedal.
2. Coupler, Choir to Great.	4. Tremulant Echo.

*Compass.*Manuals, CC to d<sup>3</sup> in alt.

Pedal, CCC to tenor d.

## 5. AMSTERDAM.

The organ in the new Church at Amsterdam is also a very old one, like the last. The original builder's name is unknown, but it was repaired and enlarged in 1673 by J. Duysschor van Goor, of Dordrecht. It is a most excellent instrument, though scarcely equal to that in the old church. The Mixtures, however, are very brilliant, and the Reeds are very well voiced. It has 44 stops, of which the following is a list:—

*Great, 12 Stops.*

1. Prestant .....	16 feet.	7. Quint .....	2½ feet.
2. Quintadena .....	16 feet tone.	8. Siflet .....	2 feet.
3. Octaaf .....	8 feet.	9. Mixtur, VI ranks.	
4. Holpyp .....	8 feet.	10. Scherp, VII ranks.	
5. Octaaf .....	4 feet.	11. Fagot .....	16 feet.
6. Gemshorn .....	4 feet.	12. Trompet .....	8 feet.

*Choir, 14 Stops.*

13. Prestant .....	8 feet.	20. Fluit .....	2 feet.
14. Holpyp .....	8 feet.	21. Siflet .....	1 foot.
15. Quintadena .....	8 feet tone.	22. Sesquialtera, II ranks ..	2½ feet.
16. Octaaf .....	8 feet.	23. Mixtur, III ranks.	
17. Fluit .....	4 feet.	24. Scherp, VI ranks.	
18. Quintfluit .....	2½ feet.	25. Quartane, IV ranks.	
19. Octaaf .....	2 feet.	26. Cornet, V ranks.	

*Echo, 10 Stops.*

27. Prestant .....	8 feet.	32. Fluit .....	4 feet.
28. Quintadena .....	8 feet tone.	33. Octaaf .....	2 feet.
29. Baarpyp .....	8 feet.	34. Sesquialtera .....	2½ feet.
30. Gamba .....	8 feet.	35. Trompet .....	8 feet.
31. Octaaf .....	4 feet.	36. Vox Humana .....	8 feet.



*Pedal, 8 Stops.*

37. Prestant .....	16 feet.	41. Octaaf .....	4 feet.
38. Bourdon .....	16 feet tone.	42. Buzian .....	16 feet.
39. Octaaf .....	8 feet.	43. Trompet .....	8 feet.
40. Roerquint .....	5½ feet tone.	44. Trompet .....	4 feet.

*Accessory Stops, Movements, &c.*

1. Coupler, Echo to Great.	4. Tremulant Echo.
2. Coupler, Choir to Great.	5. Tremulant, Choir.
3. Coupler, Great to Pedal.	6, 7, 8, 9. Four Wind-trunk valves.

*Compass.*

Manuals, CC to d <sup>3</sup> in alt., 51 notes.	Pedal, CCC to tenor d, 27 notes.
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## 6. NYMENGEN.

The organ in the Church of St. Stephen, at Nymengen, in Holland, was built, in 1766, by König, of Cologne. It is a much larger as well as more complete instrument than any which König built for his own city. It contains altogether 53 stops, 3 Manuals, and Pedal; the latter comprising 12 stops. The following is the specification of the above-named instrument, which is one of the best in Holland, particularly in regard to its solo stops:—

*Great, 13 Stops.*

1. Prestant .....	16 feet.	8. Tertian .....	3½ feet.
2. Octaaf .....	8 feet.	9. Super-octaaf .....	2 feet.
3. Gemshorn .....	8 feet.	10. Mixtur, VI ranks.	
4. Roer Gedact .....	8 feet tone.	11. Fourniture, III ranks.	
5. Quint Gedact .....	5½ feet tone.	12. { Trompet Discant Trompet Bass } .....	16 feet.
6. Octaaf .....	4 feet.	13. Trompet .....	8 feet.
7. Roerflöte .....	4 feet tone.		

*Choir, 14 Stops.*

14. Bourdon .....	16 feet tone.	21. Klein octave .....	2 feet.
15. Prestant .....	8 feet.	22. Flageolet .....	1 foot.
16. Flauto Traverso .....	8 feet.	23. Mixtur, VI ranks.	
17. Klein Bourdon .....	8 feet tone.	24. Carillon, II ranks.	
18. Octaaf .....	4 feet.	25. Trompet .....	8 feet.
19. Flaut a becq .....	4 feet.	26. Bassoon .....	8 feet.
20. Quint .....	2½ feet.	27. Vox Humana .....	8 feet tone.

*Echo, 14 Stops.*

28. Quintadeen .....	16 feet tone.	35. Quint Fluit .....	1½ feet.
29. Koppel .....	8 feet.	36. Mixtur, V ranks.	
30. Viol di Gamba .....	8 feet.	37. Cornet, V ranks.	
31. Weide Gedact .....	8 feet tone.	38. Echo, II ranks .....	8 & 4 feet.
32. Octaaf .....	4 feet.	39. Hautbois .....	8 feet.
33. Nazard and Composita, II ranks .....	2½ feet.	40. Vox Humana .....	8 feet tone.
34. Super-octave .....	2 feet.	41. Vox Angelica Bass .....	4 feet.

*Pedal, 12 Stops.*

42. Principal .....	16 feet.	48. Quint .....	5½ feet.
43. Violin .....	16 feet.	49. Octaaf .....	4 feet.
44. Sub-bass .....	16 feet tone.	50. Bombarde .....	16 feet.
45. Quint Bass .....	10½ feet tone.	51. Trompet .....	8 feet.
46. Octaaf .....	8 feet.	52. Clarion .....	4 feet.
47. Roer Bass .....	8 feet tone.	53. Cornet Bass .....	2 feet.

*Accessory Stops, Movements, &c.*

- |                    |                                     |
|--------------------|-------------------------------------|
| 1. Great to Pedal. | 4. Tremulant to Choir.              |
| 2. Choir to Great. | 5, 6, 7, 8. Four Wind-trunk valves. |
| 3. Echo to Great.  |                                     |

*Compass.*

Manuals, CC to f<sup>3</sup> in alt, 54 notes. | Pedal CCC to tenor d, 27 notes.

## 7. GOUDA.

The organ in the Church of St. John the Baptist, at Gouda, was built by Morcau, of Rotterdam, in 1736. One of the chief features in this instrument is its Vox Humana stop, which is particularly fine; but the tone of the whole organ is most excellent. It has 3 Manuals and Pedal, and 51 stops, the names and distribution of which are as follows:—

*Great, 13 Stops.*

- |                     |              |                              |              |
|---------------------|--------------|------------------------------|--------------|
| 1. Prestant .....   | 16 feet.     | 8. Octaaf .....              | 2 feet.      |
| 2. Prestant .....   | 8 feet.      | 9. Mixture, IV and VI ranks. |              |
| 3. Holpyp .....     | 8 feet.      | 10. Cornet, V ranks.         |              |
| 4. Quint .....      | 5½ feet.     | 11. Trompet .....            | 16 feet.     |
| 5. Octaaf .....     | 4 feet.      | 12. Trompet .....            | 8 feet.      |
| 6. Roerfluit .....  | 4 feet tone. | 13. Schalmey .....           | 8 feet tone. |
| 7. Open-fluit ..... | 4 feet.      |                              |              |

*Choir, 15 Stops.*

- |                          |               |                                    |         |
|--------------------------|---------------|------------------------------------|---------|
| 14. Bourdon .....        | 16 feet tone. | 22. Woudfluit .....                | 2 feet. |
| 15. Prestant .....       | 8 feet.       | 23. Mixture, VI ranks.             |         |
| 16. Holpyp .....         | 8 feet.       | 24. Scherp, VI ranks.              |         |
| 17. Fluit Traverso ..... | 8 feet.       | 25. Cornet, VI ranks.              |         |
| 18. Octaaf .....         | 4 feet.       | 26. { Carillon Discant, III ranks. |         |
| 19. Fluit Douce .....    | 4 feet.       | { Carillon Bass, II ranks.         |         |
| 20. Quint .....          | 2½ feet.      | 27. Trompet .....                  | 8 feet. |
| 21. Octaaf .....         | 2 feet.       | 28. Dulcian .....                  | 8 feet. |

*Echo, 12 Stops.*

- |                       |              |                                  |              |
|-----------------------|--------------|----------------------------------|--------------|
| 29. Prestant .....    | 8 feet.      | 35. Octaaf .....                 | 2 feet.      |
| 30. Salicional .....  | 8 feet.      | 36. Nachthorn .....              | 2 feet.      |
| 31. Echo Holpyp ..... | 8 feet.      | 37. Sesquialtera, II ranks ..... | 2½ feet.     |
| 32. Quintadon .....   | 8 feet tone. | 38. Flageolet .....              | 1 foot.      |
| 33. Octaaf .....      | 4 feet.      | 39. Echo Trompet .....           | 8 feet.      |
| 34. Echo Fluit .....  | 4 feet.      | 40. Vox Humana .....             | 8 feet tone. |

*Pedal, 11 Stops.*

- |                      |               |                     |          |
|----------------------|---------------|---------------------|----------|
| 41. Prestant .....   | 16 feet.      | 47. Hohlfluit ..... | 2 feet.  |
| 42. Sub-bass .....   | 16 feet tone. | 48. Bazuin .....    | 16 feet. |
| 43. Prestant .....   | 8 feet.       | 49. Trompet .....   | 8 feet.  |
| 44. Wyd Gedact ..... | 8 feet tone.  | 50. Clarion .....   | 4 feet.  |
| 45. Rohrquint .....  | 5½ feet tone. | 51. Cornetin .....  | 2 feet.  |
| 46. Octaaf .....     | 4 feet.       |                     |          |

*Accessory Stops, Movements, &c.*

- |                    |                                     |
|--------------------|-------------------------------------|
| 1. Great to Pedal. | 4. Tremulant Echo.                  |
| 2. Choir to Great. | 5, 6, 7, 8. Four Wind-trunk valves. |
| 3. Echo to Great.  |                                     |

*Compass.*

Manuals, CC to d<sup>3</sup> in alt, 51 notes. | CCC to tenor c, 25 notes.

## 8. THE HAGUE.

The organ in the Lutheran Church at the Hague is a very good instrument, possessing 3 Manuals and Pedal, and 39 stops, the names and distribution of which latter are as follows :—

*Great, 14 Stops.*

1. Bourdon .....	16 feet tone.	8. Octaaf .....	2 feet.
2. Prestant .....	8 feet.	9. Woudfluit .....	2 feet.
3. Roerfluit .....	8 feet tone.	10. Mixture, VI ranks.	
4. Quintadon .....	8 feet tone.	11. Cornet, V ranks.	
5. Octaaf .....	4 feet.	12. Fagot .....	16 feet.
6. Nachthorn .....	4 feet.	13. Trompet .....	8 feet.
7. Quint .....	2½ feet.	14. Trompet .....	4 feet.

*Choir, 9 Stops.*

15. Prestant .....	8 feet.	20. Sesquialtera, II ranks ..	2½ feet.
16. Holpyp .....	8 feet.	21. Flageolet .....	1 foot.
17. Octaaf .....	4 feet.	22. Mixture, III ranks .....	2 feet.
18. Fluit .....	4 feet.	23. Dulcian .....	8 feet.
19. Octaaf .....	2 feet.		

*Echo, 8 Stops.*

24. Prestant .....	8 feet.	28. Roerfluit ..	4 feet tone.
25. Baarpyp .....	8 feet.	29. Fluit .....	2 feet.
26. Quintadon .....	8 feet tone.	30. Schalmei .....	8 feet tone.
27. Salicional .....	4 feet.	31. Vox Humana .....	8 feet tone.

*Pedal.*

32. Prestant ...	16 feet.	36. Octaaf .....	4 feet.
33. Bourdon .....	16 feet tone.	37. Trompet .....	16 feet.
34. Prestant .....	8 feet.	38. Trompet .....	8 feet.
35. Rocrquint ...	5½ feet tone.	39. Trompet .....	4 feet.

*Accessory Stops, Movements, &c.*

1. Choir to Great.	4. Tremulant, Echo.
2. Echo to Great.	5. Tremulant, Choir.
3. Great to Pedal.	6, 7, 8, 9. Four Wind-trunk valves.

*Compass..*

CC to c<sup>3</sup> in alt., 49 notes.

Pedal CCC to tenor c, 25 notes.

## 9. DELFT.

The organ in the New Church at Delft was built by Batz, of Utrecht, and is altogether a very fine organ, especially the reed stops. It has 3 Manuals and Pedal, and 43 stops, of which latter the following is a list :—

*Great, 13 Stops.*

1. Prestant .....	16 feet.	8. Octaaf .....	2 feet.
2. Bourdon .....	16 feet tone.	9. Mixture, IV, VI, and VIII	
3. Octaaf .....	8 feet.	ranks.	
4. Roerfluit .....	8 feet tone.	10. Cornet, V ranks.	
5. Octaaf .....	4 feet.	11. Fagot .....	16 feet.
6. Gemshorn .....	4 feet.	12. Trompet .....	8 feet.
7. Quint .....	2½ feet.	13. Trompet .....	4 feet.

*Choir, 11 Stops.*

14. Prestant .....	8 feet.	20. Octaaf .....	2 feet.
15. Holpypp .....	8 feet.	21. Mixture, III, IV, and VI ranks.	
16. Quintadon .....	8 feet tone.	22. Cornet, IV ranks.	
17. Octaaf .....	4 feet.	23. Trompet .....	8 feet.
18. Roerfluit .....	4 feet tone.	24. Dulcian .....	8 feet.
19. Quint .....	2½ feet.		

*Echo, 9 Stops.*

25. Prestant .....	8 feet.	30. Salicional .....	4 feet.
26. Holpypp .....	8 feet.	31. Woudfluit .....	2 feet.
27. Viol di Gamba .....	8 feet.	32. Trompet .....	8 feet.
28. Quintadena .....	8 feet tone.	33. Vox Humana .....	8 feet tone.
29. Open-fluit .....	4 feet.		

*Pedal, 10 Stops.*

34. Prestant .....	16 feet.	39. Octaaf .....	4 feet.
35. Sub-bass .....	16 feet tone.	40. Bazuin .....	16 feet.
36. Octaaf .....	8 feet.	41. Trompet .....	8 feet.
37. Fluit Bass .....	8 feet.	42. Trompet .....	4 feet.
38. Roerquint .....	5½ feet tone.	43. Cinq .....	2 feet.

*Accessory Stops, Movements, &c.*

1. Echo to Great.	4. Tremulant.
2. Choir to Great.	5, 6, 7, 8. Four Wind-trunk valves.
3. Great to Pedal.	

*Compass.*

Manuals, CC to f<sup>3</sup> in alt., 54 notes. | Pedals, CCC to tenor c, 29 notes.

## 10. UTRECHT.

The organ in the principal Protestant Church at Utrecht is a very fine one, and is remarkable for having two pipes to each key, from Middle c upwards, throughout all the stops of the great organ. It was built by Batz, of Utrecht, in 1826, and contains 51 stops, 3 Manuals, and Pedal. The following is a list of its contents:—

*Great, 13 Stops.*

1. Prestant .....	16 feet.	7. Quint .....	2½ feet.
2. Bourdon, metal Treble, wood Bass .....	16 feet tone.	8. Octaaf .....	2 feet.
3. Octaaf .....	8 feet.	9. Gemshorn .....	2 feet.
4. Roerfluit .....	8 feet tone.	10. Sesquialtera, IV ranks.	
5. Octaaf .....	4 feet.	11. Mixture, VII ranks.	
6. Gemshorn .....	4 feet.	12. Fagot .....	16 feet.
		13. Trompet .....	8 feet.

*Choir, 13 Stops.*

14. Prestant, 2 pipes all through .....	8 feet.	21. Fluit .....	2 feet.
15. Holpypp .....	8 feet.	22. Mixture, V ranks.	
16. Quintadena .....	8 feet.	23. Scherf, VIII ranks.	
17. Octaaf .....	4 feet.	24. Cornet, V ranks.	
18. Roerfluit .....	4 feet tone.	25. Trompet .....	8 feet.
19. Quint .....	2½ feet.	26. Dulcian .....	8 feet.
20. Octaaf .....	2 feet.		

*Echo, 13 Stops.*

27. Prestant .....	8 feet.	34. Quintfluit .....	2½ feet.
28. Bourdon .....	8 feet tone.	35. Woudfluit .....	2 feet.
29. Gamba .....	8 feet.	36. Flageolet .....	1 foot.
30. Flute Traversie to tenor c...	8 feet.	37. Trompet .....	8 feet.
31. Barpyf.....	8 feet.	38. Voix Humaine .....	8 feet.
32. Octaaf.....	4 feet.	39. Carillon, 11 ranks.	
33. Fluit, open, large .....	4 feet.		

*Pedal, 12 Stops.*

40. Prestant, metal in front ...	16 feet.	46. Mixture, VI ranks .....	2½ feet.
41. Sub-bass, wood.....	16 feet tone.	47. Bazuin, CCC, 10 inch....	16 feet.
42. Octaaf, metal.....	8 feet.	48. Trombone . . . . .	8 feet.
43. Fluit Bass .....	8 feet tone.	49. Trompet .....	4 feet.
44. Roerquint .....	5½ feet.	50. Cinq .....	2 feet.
45. Octaaf, of metal .....	4 feet.	51. Clarion .....	1 foot.

*Accessory Stops, Movements, &c.*

1. Positif to Great.	4. Tremulant Positif.
2. Echo to Great.	5, 6, 7, 8. Four Wind-trunk valves.
3. Great to Pedals.	

*Compass.*

Manuals, CC to f<sup>3</sup> in alt., 54 notes. | Pedal, CCC to tenor d, 27 notes.

## II. TRIEBEL.

The organ in the State Church at Triebel, in the Netherlands, has 22 sounding stops, 2 Manuals, and Pedal. The following is a list of the stops:—

*Great, 10 Stops.*

1. Bourdon, 10 loth metal in the treble; the bass of wood	16 feet tone.	5. Octave, 12 loth English tin .....	4 feet.
2. Principal, 14 loth tin, polished, and in front .....	8 feet.	6. Fullfluit, 10 loth metal ...	4 feet.
3. Salicional, 14 loth English tin	8 feet.	7. Quint, 12 loth tin ...	2½ feet.
4. Hohlfluit, 10 loth metal to tenor c; the 8-feet octave of wood.....	8 feet.	8. Super-octave, 12 loth tin...	2 feet.
		9. Mixture, IV ranks .....	2 feet.
		10. Trompet .....	8 feet.

*Choir, 8 Stops.*

11. Violdi Gamba, 14 loth English tin .....	8 feet.	15. Wald-fluit, 10 loth English tin .....	2 feet.
12. Flaut d'amour .....	8 feet.	16. Flageolet, 12 loth English tin	2 feet.
13. Principal, 14 loth English tin, in front .....	4 feet.	17. Cornet, 12 loth English tin, III ranks .....	
14. Nazard, 12 loth English tin.....	2½ feet.	18. { Oboe, 12 loth English tin } { Fagot, 12 loth English tin }	8 feet.

*Pedal, 4 Stops.*

19. Principal, 14 loth Eng. tin, in front; the five lowest Pipes of Pine, and Stopped	16 feet.	20. Sub-bass, wood .....	16 feet tone.
		21. Octave, wood .....	8 feet.
		22. Posaune.....	16 feet.

*Accessory Stops, Movements, &c.*

1. Choir to Great.	3, 4, 5. Three Wind-trunk valves.
2. Great to Pedal.	Three Bellows, 10 feet long.
	Six Sound-boards.

*Compass.*

Manuals, CC to f<sup>3</sup> in alt., 54 notes. | Pedal, CCC to tenor d, 27 notes.

## 12. ST. DENIS.

The organ in the Abbey Church of St. Denis, near Paris—the Westminster Abbey of France—is a particularly fine instrument. It was made by MM. Cavaillé-Coll, organ-builders of Paris, and was opened on the 21st of September, 1841. It contains sixty nine sounding stops, among which are twelve for the Pedal; and there are three Manuals. The “Clavier de Bombardes” is not furnished with a separate Manual, as at the Madeleine, but communicates with the Great organ keys. Among the most remarkable features in this organ is the adjustment of the wind. Not only are the Reed stops placed on a heavier wind than those of the Flue species, but the upper octaves of all the stops are in common supplied with a stronger blast than the lower; upon the principle that wind instrument players exercise a greater pressure of the muscles upon the lungs when producing the acute sounds. There are also several stops of a novel kind, called by Cavaillé “Harmonique,” which sound the octave above the note that the length of the pipe would indicate. This was the first organ that had Barker's Pneumatic Lever attachment for lightening the touch. The Combination Pedals, eight in number, are of novel and convenient construction. The following is a list of its stops:—

*Clavier du Grand Orgue, 20 Stops.*

	Pipes.		Pipes.
1. Montre, throughout; of spotted metal to CCC; last octave of wood.....	32 feet ..... 54	12. Grosse Fourniture, IV ranks .....	216
2. Montre .....	16 feet ..... 54	13. Grosse Cymbale, IV ranks .....	216
3. Bourdon.....	16 feet tone... 54	14. Petite Fourniture, IV ranks .....	216
4. Montre .....	8 feet ..... 54	15. Petite Cymbale, IV ranks .....	216
5. Bourdon.....	8 feet tone... 54	16. Première Trompette Harmonique .....	8 feet ..... 54
6. Viola .....	8 feet ..... 54	17. Deuxième Trompette Harmonique .....	8 feet ..... 54
7. Flute Traversière Har- monique .....	8 feet ..... 54	18. Basson et Cor Anglais	8 feet ..... 54
8. Prestant.....	4 feet ..... 54	19. Cornet à pavillon...	8 feet ..... 54
9. Flute Octaviant Harmonique.....	4 feet ..... 54	20. Clarion Octaviant...	4 feet ..... 54
10. Nazard .....	2½ feet..... 54		
11. Doublette ... ..	2 feet ..... 54		

*Clavier de Bombardes, 12 Stops.*

21. Bourdon.....	16 feet tone... 54	28. Bombarde.....	16 feet ..... 54
22. Flute .....	8 feet ..... 54	29. Trompette de Bom- barde .....	8 feet ..... 54
23. Bourdon.....	8 feet tone... 54	30. Trompette Har- monique .....	8 feet ..... 54
24. Prestant .....	4 feet ..... 54	31. Clarion Harmonique	4 feet ..... 54
25. Quint .....	2½ feet ..... 54	32. Clarion Octaviant...	4 feet ..... 54
26. Doublette .....	2 feet ..... 54		
27. Cornet, VII ranks .....	210		

*Clavier de Récit.-Echo Expressif, 8 Stops.*

33. Bourdon.....	8 feet tone .. 54	38. Trompette Harmo- nique .....	8 feet ..... 54
34. Flute Harmonique	8 feet ..... 54	39. Voix Humaine Har- monique .....	8 feet ..... 54
35. Flute Octaviant Har- monique .....	4 feet ..... 54	40. Clarion Harmo- nique .....	4 feet ..... 54
36. Quint .....	2½ feet ..... 54		
37. Octavin Harmonique	2 feet ..... 54		

*Clavier du Positif, 17 Stops.*

Pipes.			Pipes.		
41. Bourdon.....	16 feet tone...	54	51. Tierce .....	1½ feet .....	54
42. Salicional .....	8 feet .....	54	52. Cymbale, IV ranks .....		216
43. Flute Harmonique .....	8 feet .....	54	53. Fourniture, IV ranks .....		216
44. Bourdon.....	8 feet tone...	54	54. Trompette Harmo- nique .....	8 feet .....	54
45. Prestant.....	4 feet .....	54	55. Clarion Octaviant... ..	4 feet .....	54
46. Flute .....	4 feet .....	54	56. Cor d'harmonie et Hautbois .....	8 feet .....	54
47. Flûte Octaviant ..	4 feet .....	54	57. Cromorne .....	8 feet .....	54
48. Quint .....	2½ feet .....	54			
49. Doublette .....	2 feet .....	54			
50. Flageolet Harmo- nique .....	2 feet .....	54			

*Clavier de Pedales, 12 Stops.*

58. Flute Ouverte .....	32 feet ...	25	65. Première Trom- pette .....	(12 ft.)... ..	8 feet ...	25
59. Flute Ouverte (24 ft.)...	16 feet ...	25	66. Deuxième Trom- pette .....	(12 ft.)... ..	8 feet ...	25
60. Contre Basse ... (24 ft.)...	16 feet ...	25	67. Basson .....	(12 ft.) ..	8 feet ...	25
61. Flute Ouverte (12 ft.)...	8 feet ...	25	68. Première Clarion (6 ft.)...	4 feet ...	25	
62. Grosse Quint ... (8 ft.)...	5½ feet ..	25	69. Deuxième Clarion (6 ft.) ..	4 feet ..	25	
63. Flute Ouverte (6 ft.)...	4 feet ...	25				
64. Bombarde ..... (24 ft.)...	16 feet ...	25				

*Combination Pedals, &c.*

- |  |   |
|--|---|
| 1. Recit. (Swell) to Great.<br>2. Bombardes to Great Manual.<br>3. Swell Stops.<br>4. Positif to Great.<br>5. The Treble of Positif Reed and Harmonic Stops to Foundation Stops. | 6. The Bass of Positif Reed and Harmonic Stops to Foundation Stops.<br>7. Manuals, Basses to Pedal.<br>8. Sub-octave Manual.<br>9. Tremulant Swell. |
|--|---|

*Compass.*

Manuals, CC to f<sup>3</sup> in altissimo, 54 notes. | Pedal, FFF to tenor f, 25 notes.

13. ST. VINCENT DE PAUL, PARIS.<sup>3</sup>

The organ in the Church of St. Vincent de Paul, at Paris, was built by Cavaillé-Coll, and is quite on an equality with the same builder's admirable instrument at the Madeleine, both in regard to refinement of tone and perfectness of finish in the mechanism. It stands at the west end of the church, and is divided, so as not to obstruct the light through the west window. The stops are forty in number, of which the following is a list :—

*Great Organ, 14 Stops.*

1. Montre .....	16 feet.	8. Quint .....	2½ feet.
2. Bourdon .....	16 feet tone.	9. Doublette .....	2 feet.
3. Montre .....	8 feet.	10. Fourniture, V ranks.	
4. Gamba .....	8 feet.	11. Cymbale, III ranks.	
5. Bourdon .....	8 feet tone.	12. Trompette .....	8 feet.
6. Prestant .....	4 feet.	13. Cornet à pavillon .....	8 feet.
7. Flute .....	4 feet.	14. Clarion .....	4 feet.

*Choir Organ, 10 Stops.*

15. Bourdon .....	16 feet tone.	20. Flute Octaviane .....	4 feet.
16. Flute Harmonique .....	8 feet.	21. Doublette .....	2 feet.
17. Salicional .....	8 feet tone.	22. Octavin Harmonique .....	2 feet.
18. Bourdon .....	8 feet tone.	23. Trompette .....	8 feet.
19. Prestant .....	4 feet.	24. Cromorne .....	8 feet tone.

*Swell Organ, 8 Stops.*

25. Flute Harmonique .....	8 feet.	29. Voix Celeste .....	8 feet.
26. Bourdon .....	8 feet tone.	30. Trompette Harmonique ..	8 feet.
27. Prestant .....	4 feet.	31. Cor Anglais .....	8 feet.
28. Flute Douce .....	4 feet.	32. Voix Humaine .....	8 feet tone.

*Pedal Organ, 8 Stops.*

33. Grand Bourdon .....	32 feet tone.	37. Bombarde .....	16 feet.
34. Montre .....	16 feet tone.	38. Contre Basse .....	16 feet.
35. Contre Basse .....	16 feet.	39. Trompette .....	8 feet.
36. Flute Ouverte .....	8 feet.	40. Clarion .....	4 feet.

*Accessory Stops, Movements, &c.*

1 to 8. Manual and Pedal Couplers.	23. Pneumatic Lever attachment.
9 to 22. Fourteen Composition Pedals.	

*Compass.*

Manuals, CC to f <sup>3</sup> in alt., 54 notes.	Pedal, CCC to tenor c, 25 notes.
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## 14. THE MADELAINE, PARIS.

The fine instrument in the Church of the Madeleine, at Paris, was built by the eminent artists who constructed the St. Denis organ, MM. Cavaillé-Coll. It was completed in 1846, and was opened in the church on the 29th of October of that year, with a performance of vocal and instrumental sacred music. The organ has 4 Manuals and Pedal, and 48 stops, distributed in the following manner :—

*Clavier du Grand Orgue, 12 Stops.*

1. Montre .....	16 pieds.	7. Prestant .....	4 pieds.
2. Violon Basse .....	16 "	8. Quint .....	2½ "
3. Montre .....	8 "	9. Doublette .....	2 "
4. Bourdon .....	8 "	10. Plein Jeu, X ranks.	
5. Salicional .....	8 "	11. Trompette .....	8 "
6. Flute Harmonique .....	8 "	12. Cor Anglais .....	8 "

*Clavier de Bombardes, 10 Stops.*

13. Soubasse .....	16 pieds.	18. Octavin .....	2 pieds.
14. Basse .....	8 "	19. Bombarde .....	16 "
15. Flute Harmonique .....	8 "	20. Trompette Harmonique ..	8 "
16. Flute Traversière .....	8 "	21. Deuxième Trompette .....	8 "
17. Flute Octaviane .....	4 "	22. Clarion .....	4 "

*Clavier du Positif, 10 Stops.*

23. Montre .....	8 pieds.	28. Dulciana .....	4 pieds.
24. Viol di Gamba .....	8 "	29. Octavin .....	2 "
25. Flute Douce .....	8 "	30. Trompette .....	8 "
26. Voix Celeste .....	8 "	31. Basson et Hautbois .....	8 "
27. Prestant .....	4 "	32. Clarion .....	4 "



*Clavier de Récit, Expressif, 8 Stops.*

33. Flute Harmonique .....	8 pieds.	37. Octavin .....	2 pieds.
34. Bourdon .....	8 „	38. Voix Humaine .....	8 „
35. Musette .....	8 „	39. Trompette Harmonique...	8 „
36. Flute Octavante .....	4 „	40. Clarion Harmonique .....	4 „

*Clavier de Pédales, 8 Stops.*

41. Quintaton .....	32 pieds.	45. Grosse Flute .....	8 pieds.
42. Contre Basse .....	16 „	46. Bombarde .....	16 „
43. Basse Contre .....	16 „	47. Trompette .....	8 „
44. Violoncelle .....	8 „	48. Clarion .....	4 „

*Combination Pedals, &c.*

1. Positif to Great.	8. Tremulant to Choir and Swell.
2. Great to Pedal.	9. Great Reeds.
3. Bombarde to Positif.	10. Bombarde Reeds.
4. Pedal to Great.	11. Choir Reeds.
5. Great Organ Sub-octave.	12. Swell Reeds.
6. Bombarde Sub-octave.	13. Pedal Reeds.
7. Pedal octave above.	

*Compass.*

Manuals, CC to f <sup>3</sup> in alt, 54 notes.	Pedal, CCC to tenor d, 27 notes.
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## 15. ST. EUSTACHE, PARIS.

The magnificent new organ in the Church of St. Eustache was built by Ducroquet, of Paris, and was opened in May, 1854. It contains 68 sounding stops, 4 Manuals, and a Pedal of 18 stops. The following is a list of its contents :—

*Great Organ, 16 Stops.*

1. Montre .....	16 feet.	9. Doublette .....	2 feet.
2. Grosse Flute .....	8 feet.	10. Fourniture, V ranks.	
3. Flute .....	8 feet.	11. Cymbale, IV ranks.	
4. Flute à pavillon .....	8 feet.	12. Cornett, V ranks.	
5. Bourdon .....	8 feet tone.	13. Euphone .....	16 feet.
6. Prestant .....	4 feet.	14. Trompette .....	8 feet.
7. Flute .....	4 feet.	15. Trompette .....	8 feet.
8. Nazard .....	3 feet.	16. Clarion .....	4 feet.

*Clavier des Bombardes, 10 Stops.*

17. Gamba .....	16 feet.	22. Gamba .....	4 feet.
18. Bourdon .....	16 feet tone.	23. Salicional .....	4 feet.
19. Gamba .....	8 feet.	24. Bombarde .....	16 feet.
20. Salicional .....	8 feet.	25. Trompette .....	8 feet.
21. Bourdon .....	8 feet tone.	26. Clarion .....	4 feet.

*Positif, 14 Stops.*

27. Montre .....	8 feet.	35. Trompette .....	8 feet.
28. Bourdon .....	8 feet tone.	36. Hautbois to tenor f .....	8 feet.
29. Flute Harmonique to tenor c	8 feet.	37. Hautbois (free Reed) to	
30. Keraulophon .....	8 feet.	tenor f .....	8 feet.
31. Salicional .....	4 feet.	38. Cromorne .....	8 feet tone.
32. Flute Ouverte .....	4 feet.	39. Basson .....	8 feet.
33. Plein Jeu, V ranks.		40. Clarion .....	4 feet.
34. Cor Anglais .....	16 feet.		

*Recit. Expressif, 10 Stops.*

41. Bourdon .....	16 feet tone.	46. Trompette .....	8 feet.
42. Flute Harmonique .....	8 feet.	47. Hautbois .....	8 feet.
43. Bourdon .....	8 feet tone.	48. Euphone .....	8 feet.
44. Flute Harmonique .....	4 feet.	49. Voix Humaine .....	8 feet tone.
45. Trompette .....	16 feet.	50. Clarion .....	4 feet.

*Pedale, 18 Stops.*

51. Flute, montre .....	32 feet.	60. Salicional .....	4 feet.
52. Flute, wood .....	16 feet.	61. Bombarde .....	32 feet.
53. Contre Basse .....	16 feet.	62. Bombarde .....	16 feet.
54. Bourdon .....	16 feet tone.	63. Basson .....	16 feet.
55. Flute .....	8 feet.	64. Trompette .....	8 feet.
56. Salicional .....	8 feet.	65. Trompette .....	8 feet.
57. Violoncello .....	8 feet.	66. Basson .....	8 feet.
58. Flute .....	8 feet.	67. Clarion .....	4 feet.
59. Flute Ouverte .....	4 feet.	68. Basson .....	4 feet.

## 16. ST. Sulpice, PARIS.

The organ in this church was rebuilt by Aristide Cavaillé-Coll, and inaugurated 29th April, 1862.

*Grand Chœur d'ut à Sol, 56 Notes.*

1. Salicional .....	8 feet.	8. 2 E Trompette .....	8 feet.
2. Octave .....	4 feet.	9. Clarion .....	4 feet.
3. Grosse Fourniture, IV ranks.		10. Clarion Doublette .....	2 feet.
4. Grosse Cymbale, VI ranks.		11. Basson .....	8 feet.
5. Plein Jeu, IV ranks.		12. Basson .....	16 feet.
6. Cornet, V ranks.		13. Bombarde .....	16 feet.
7. 1 <sup>er</sup> Trompette .....	8 feet.		

*Grand Orgue, d'ut à Sol, 56 Notes.*

1. Principal-harm .....	32 16 feet.	8. Bourdon .....	8 feet.
2. Montre .....	16 feet.	9. Diapason .....	8 feet.
3. Bourdon .....	16 feet.	10. Flute à pavillon .....	8 feet.
4. Flute Conique .....	16 feet.	11. Prestant .....	4 feet.
5. Flute Harmonique .....	8 feet.	12. Grosse Quint .....	5½ feet.
6. Flute Traversière .....	8 feet.	13. Doublette .....	2 feet.
7. Montre .....	8 feet.		

*Bombarde d'ut à Sol, 56 Notes.*

1. Soubasse .....	16 feet.	11. Grosse Quint .....	5½ feet.
2. Flute Conique .....	16 feet.	12. Grosse Tierce .....	3½ feet.
3. Principal .....	8 feet.	13. Quint .....	2½ feet.
4. Flute Harmonique .....	8 feet.	14. Octave .....	4 feet.
5. Bourdon .....	8 feet.	15. Octavin .....	2 feet.
6. Gamba .....	8 feet.	16. Cornet, V ranks.	
7. Violoncello .....	8 feet.	17. Trompette .....	8 feet.
8. Keraulophon .....	8 feet.	18. Clarion .....	4 feet.
9. Flute Octavante .....	4 feet.	19. Baryton .....	8 feet.
10. Prestant .....	4 feet.	20. Bombarde .....	16 feet.

*Positif d'ut à Sol, 56 Notes.*

1. Violon Basse .....	16 feet.	11. Quint .....	2½ feet.
2. Quintaton .....	16 feet.	12. Doublette .....	2 feet.
3. Quintaton .....	8 feet.	13. Plein Jeu-harm, III-VI ranks.	
4. Flute Traversière .....	8 feet.	14. Tierce .....	1½ feet.
5. Salicional .....	8 feet.	15. Larigot .....	1½ feet.
6. Viol di Gamba .....	8 feet.	16. Piccolo .....	1 foot.
7. Unda Maris .....	8 feet.	17. Trompette .....	8 feet.
8. Flute Octavante .....	4 feet.	18. Clarinette .....	8 feet.
9. Flute Douce .....	4 feet.	19. Clarion .....	4 feet.
10. Dulcian .....	4 feet.	20. Euphone .....	16 feet.

*Recit. Expressif d'ut à Sol, 56 Notes.*

1. Quintaton .....	16 feet.
2. Bourdon .....	8 feet.
3. Violoncello .....	8 feet.
4. Prestant .....	4 feet.
5. Doublette .....	2 feet.
6. Fourniture, IV ranks.	
7. Cymbale, V ranks.	
8. Basson et Hautbois .....	8 feet.
9. Voix Humaine .....	8 feet.
10. Cromorne .....	8 feet.
11. Cor Anglais .....	16 feet.
12. Voix Celeste .....	8 feet.

*Jeux de Combinaison.*

13. Flute Harmonique .....	8 feet.
14. Flute Octavante .....	4 feet.
15. Dulcian .....	4 feet.
16. Nazard .....	2½ feet.
17. Octavin .....	2 feet.
18. Cornet, V ranks.	
19. Trompette .....	8 feet.
20. Trompette-harm .....	8 feet.
21. Bombarde .....	16 feet.
22. Clarion .....	4 feet.

*Clavier de Pedale (ou Pedalier d'ut à Fa, 30 Notes.)*

1. Principal Basse .....	32 feet.	7. Clarion .....	4 feet.
2. Contre Basse .....	16 feet.	8. Ophicleide .....	8 feet.
3. Soubasse .....	16 feet.	9. Trompette .....	8 feet.
4. Flute .....	8 feet.	10. Basson .....	16 feet.
5. Violoncello .....	8 feet.	11. Bombarde .....	16 feet.
6. Flute .....	4 feet.	12. Contre Bombarde .....	32 feet.

*Pedales de Combinaison.*

1. Orgue.	11. Anches Bombardes.
2. Tirasse Grand Chœur.	12. Anches Positif.
3. Tirasse Grand Orgue.	13. Anches Recit.
4. Anches Pédalle.	14. Copula Grand Chœur.
5. Octaves Grand Chœur.	15. Copula Grand Orgue.
6. Octaves Grand Orgue.	16. Copula Bombardes.
7. Octaves Bombardes.	17. Copula Positif.
8. Octaves Positif.	18. Copula Recit.
9. Octaves Recit.	19. Tremblant.
10. Anches Grand Orgue.	20. Expression.

*Registres de Combinaison.*

1. Combinaison Pedal G.	6. Combinaison Pedal G.
2. Combinaison Grand Orgue G.	7. Grand Orgue D.
3. Bombardes G.	8. Bombarde D.
4. Combinaison Positif G.	9. Positif D.
5. Combinaison Recit. G.	10. Recit. D.

*Registres Accessoires.*

1. Sonnette du Haut G.	3. Sonnette du Haut D.
2. Sonnette du Bas G.	4. Sonnette du Bas D.

Total—100 Stops, 118 Registers, 20 Composition Pedals, 6706 Pipes.

## 17. AMIENS.

The organ in the Cathedral at Amiens, which has a 16-foot front, was completed in the year 1429, and was built at the expense of Alphonse de Myrhe, one of the chamberlains of King Charles the Sixth. It still retains its interesting antique appearance, and stands at the west-end of the nave, with the west entrance below, and a handsome circular window, filled with stained glass, above. The Amiens Cathedral organ has 3 Manuals and Pedal, and 40 stops, of which latter the following is a list :—

*Great Organ, 16 Stops.*

1. Montre .....	16 feet.	9. Tierce .....	1½ feet.
2. Bourdon .....	16 feet tone.	10. Fourniture.	
3. Montre .....	8 feet.	11. Cornet.	
4. Bourdon .....	8 feet tone.	12. Bombarde .....	16 feet.
5. Flute .....	8 feet.	13. Trompette .....	8 feet.
6. Prestant .....	4 feet.	14. Trompette .....	8 feet.
7. Nazard .....	2½ feet.	15. Clarion .....	4 feet.
8. Doublette .....	2 feet.	16. Vox Humaine .....	8 feet.

*Choir Organ, 11 Stops.*

17. Montre .....	8 feet.	23. Tierce .....	1½ foot.
18. Bourdon .....	8 feet tone.	24. Plein Jeu.	
19. Flute .....	8 feet.	25. Cornet.	
20. Prestant .....	4 feet.	26. Trompette .....	8 feet.
21. Nazard .....	2½ feet.	27. Cromorne .....	8 feet tone.
22. Doublette .....	2 feet.		

*Recit., 6 Stops.*

28. Bourdon .....	8 feet tone.	31. Cornet.	
29. Flute .....	8 feet.	32. Trompette .....	8 feet.
30. Prestant .....	4 feet.	33. Hautbois .....	8 feet.

*Pedal Organ, 7 Stops.*

34. Flute .....	16 feet.	38. Bombarde .....	16 feet.
35. Bourdon .....	16 feet tone.	39. Trompette .....	8 feet.
36. Flute .....	8 feet.	40. Clarion .....	4 feet.
37. Flute .....	8 feet.		

## 18. AMIENS.

The organ in the Church of St. Remy, at Amiens, was built by the monks of St. Basil, and finished by them in the year 1842, at a cost of £1,000. It has 34 sounding stops, 3 Manuals, and Pedal. The following is an enumeration of the stops:—

*Great Organ, 14 Stops.*

1. Bourdon .....	16 feet tone.	8. Doublette .....	2 feet.
2. Montre .....	8 feet.	9. Fourniture.	
3. Bourdon .....	8 feet tone.	10. Cornet.	
4. Prestant .....	4 feet.	11. Trompette .....	8 feet.
5. Dulcian .....	4 feet.	12. Trompette .....	8 feet.
6. Flute .....	4 feet.	13. Voix Humaine .....	8 feet tone.
7. Nazard .....	2½ feet.	14. Clarion .....	4 feet.

*Choir Organ, 10 Stops.*

15. Bourdon .....	8 feet tone.	20. Quarte de Nazard .....	2 feet.
16. Prestant .....	4 feet.	21. Fourniture.	
17. Flute .....	4 feet.	22. Cornet.	
18. Nazard .....	2½ feet.	23. Cremona (throughout) ...	8 feet tone.
19. Doublette .....	2 feet.	24. Clarion .....	4 feet.

*Swell Organ, 6 Stops.*

25. Bourdon .....	8 feet tone.	28. Nazard .....	2½ feet.
26. Prestant .....	4 feet.	29. Hautbois .....	8 feet.
27. Flute .....	4 feet.	30. Trompette .....	8 feet.

*Pedal Organ, 4 Stops.*

31. Flute .....	16 feet.	33. Bombarde .....	16 feet.
32. Flute .....	8 feet.	34. Trompette .....	8 feet.

*Compass.*

Great CC to f<sup>a</sup> in alt., 54 notes.  
Choir CC to f<sup>a</sup> in alt., 54 notes.

Swell, tenor c to f<sup>a</sup> in alt., 42 notes.  
Pedal, FFF to tenor f, 25 notes.

## 19. TOURS.

There were two cathedrals at Tours. That dedicated to St. Martin was destroyed. The large organ here described was destroyed in the Revolution; but its specification is worth preservation. The instrument was built by J. B. U.

Le Fevre, of Rouen, was of immense power, and had 4 Manuals and 60 sounding stops, supplied by 13 bellows. The stops were distributed in the following manner :—

*Great Organ, 23 Stops.*

1. Grosse Principal to FFFF	32 feet.	13. Quint .....	3 feet.
2. Sub-bourdon.....	32 feet tone.	14. Doublette.....	2 feet.
3. Prestant.....	16 feet.	15. Tierce .....	1½ foot.
4. Bourdon .....	16 feet tone.	16. Quint .....	1½ foot.
5. Montre .....	8 feet.	17. Mixture, XV ranks.	
6. Prestant.....	8 feet.	18. Cornet, V ranks.	
7. Principal .....	8 feet.	19. First Trompette .....	8 feet.
8. Bourdon .....	8 feet tone.	20. Second Trompette .....	8 feet.
9. Quint .....	6 feet.	21. Third Trompette.....	8 feet.
10. Octave .....	4 feet.	22. First Clarion .....	4 feet.
11. Octave .....	4 feet.	23. Second Clarion .....	4 feet.
12. Tierce .....	3½ feet.		

*Choir Organ, 16 Stops.*

24. Bourdon .....	16 feet tone.	32. Tierce .....	1½ foot.
25. Principal .....	8 feet.	33. Quint .....	1½ foot.
26. Prestant.....	8 feet.	34. Mixture, IX ranks.	
27. Bourdon .....	8 feet tone.	35. Cornet, V ranks.	
28. Octave .....	4 feet.	36. Trompette .....	8 feet.
29. Quint.....	3 feet.	37. Clarion.....	4 feet.
30. Octave .....	2 feet.	38. Cromorne .....	8 feet.
31. Doublette .....	2 feet.	39. Voix Humaine .....	8 feet.

*Bombarde, 6 Stops.*

40. Bourdon .....	8 feet tone.	43. Bombarde .....	16 feet.
41. Octave .....	4 feet.	44. Trompette .....	8 feet.
42. Cornet, V ranks.		45. Clarion.....	4 feet.

*Fourth Manual.*

A general Echo to the Great organ.

*Pedal, 15 Stops.*

46. Grosse Principal .....	16 feet.	54. Octave .....	2 feet.
47. Octave .....	8 feet.	55. Tierce ...	1½ feet.
48. Prestant.....	8 feet.	56. Bombarde .....	32 feet.
49. Quint.....	6 feet.	57. Trompette .....	16 feet.
50. Octave .....	4 feet.	58. Trompette .....	8 feet.
51. Flute .....	4 feet.	59. Clarion.....	4 feet.
52. Tierce .....	3½ feet.	60. Clarion.....	2 feet.
53. Quint.....	3 feet.		

20. ROUEN.

The organ in the magnificent Church of St. Ouen, at Rouen, was built in the year 1630. It has recently been renovated by MM. Cavaillé-Coll. It had 5 Manuals, a Pedal organ of 2 octaves in compass, 12 pairs of bellows, and 49 sounding stops, distributed as follows :—

*Great, 13 Stops (Fourth Manual).*

1. Montre (throughout, in metal) .....	16 feet.	7. Quart .....	2 feet.
2. Bourdon (throughout) .....	16 feet.	8. Tierce .....	1½ foot.
3. Montre .....	8 feet.	9. Fourniture.	
4. Bourdon .....	8 feet.	10. Cymbale.	
5. Prestant .....	4 feet.	11. Bassus de Trompette .....	8 feet.
6. Quint.....	2½ feet.	12. Voix Humaine .....	8 feet.
		13. Clarion.....	4 feet.

*Choir, 14 Stops (Lower Manual).*

14. Prestant.....	8 feet.	21. Cornet.	
15. Bourdon .....	8 feet.	22. Galonbel.	
16. Prestant.....	4 feet.	23. Plein Jeu.	
17. Flute .....	4 feet.	24. Cromorne.....	8 feet.
18. Nazard .....	2½ feet.	25. Basson et Hautbois .....	8 feet.
19. Doublette .....	2 feet.	26. Trompette .....	8 feet.
20. Tierce .....	1½ foot.	27. Clarion .....	4 feet.

*Echo, 4 Stops (Upper Manual).*

28. Flute . . . . .	8 feet.	30. Trompette .....	8 feet.
29. Cornet.		31. Clarion.....	4 feet.

*Recit., 6 Stops (Second Manual).*

32. Bourdon, Recit. ....	8 feet.	35. Hautbois, Recit. ....	8 feet.
33. Flute, Recit. ....	4 feet.	36. Trompette, Recit. ....	8 feet.
34. Cornet, Recit.		37. Clarion, Recit.....	4 feet.

*Rombarde, 4 Stops (Third Manual).*

38. Bombarde .....	16 feet.	40. Clarion .....	4 feet.
39. Trompette.....	8 feet.	41. Cornet.	

*Pedal, 8 Stops.*

42. Prestant .....	16 feet.	46. Prestant .....	4 feet.
43. Gamba .....	16 feet.	47. Bombarde .....	16 feet.
44. Prestant .....	8 feet.	48. Trompette .....	8 feet.
45. Quint .....	5½ feet.	49. Clarion .....	4 feet.

## 21. ABBEVILLE.

The organ in the Cathedral at Abbeville is placed over the west entrance, where it has a majestic appearance. The case of the Great organ has five towers, with the smallest one in the centre; the Choir organ has three towers, with the largest one in the centre. The 16-foot Montre stands in front, and is of polished tin. The organ is an old one, and originally belonged to the Church of St. George, which building was completely demolished in the Revolution of 1793. The organ escaped sharing the same fate through the care of Honoré Blondin, the nephew of whom was for many years, and, perhaps, still is, organist. The instrument was enlarged and thoroughly repaired by M. Charles Lefevre, of Abbeville, some years since, but both cathedral and instrument were in a dilapidated condition when we last saw them. The organ contains 42 stops, distributed as follows:—

*Great, 18 Stops.*

1. Montre (throughout) .....	16 feet.	10. Doublette .....	2 feet.
2. Bourdon (throughout) ..	16 feet tone.	11. Flute .....	2 feet.
3. Montre .....	8 feet.	12. Fourniture .....	
4. Bourdon .....	8 feet tone.	13. Grand Cornet .....	
5. Flute .....	8 feet.	14. Trompette .....	8 feet.
6. Prestant .....	4 feet.	15. Trompette .....	8 feet.
7. Flute .....	4 feet.	16. Clarion .....	4 feet.
8. Flute Tacet .....	4 feet.	17. Cromorne (throughout) ...	8 feet.
9. Nazard .....	2½ feet.	18. Voix Humaine.....	8 feet.

*Choir, 12 Stops.*

19. Bourdon .....	8 feet tone.	25. Petit Nazard .....	1½ foot.
20. Montre .....	4 feet.	26. Fife.....	1 foot.
21. Flute à Cheminée .....	4 feet.	27. Fourniture .....	
22. Nazard .....	2½ feet.	28. Hautbois Tacet .....	8 feet.
23. Super Octave .....	2 feet.	29. Clarion .....	4 feet.
24. Doublette .....	2 feet.	30. Cromorne (throughout) ...	8 feet.

*Swell, 6 Stops.*

31. Dulcian.....	8 feet.	34. Flute.....	2 feet.
32. Flute .....	4 feet.	35. Hautbois .....	8 feet.
33. Nazard .....	2½ feet.	36. Trompette .....	8 feet.

*Pedal, 6 Stops.*

37. Flute Allemande .....	16 feet.	40. Musette .....	
38. Flute .....	8 feet.	41. Bombarde, wood .....	16 feet.
39. Flute .....	4 feet.	42. Trompette, metal .....	8 feet.

There are four Manuals : the lower one for the Choir organ, the second for the Great ; the third for the Pedal organ, which is of the same compass as the other organs ; and the fourth for the Swell. The compass of the Great, Choir, and Pedal is from CC to f<sup>3</sup> in alt. The Swell, to tenor f ; the Pedal-board is from CCC to tenor f, two octaves and a half. The Manuals are coupled together by being drawn out about half an inch.

## 22. BEAUVAIS.

The organ in the Cathedral at Beauvais has 5 Manuals and Pedal, and 64 sounding stops, of which the following is a list :—

*Grand Orgue (Great), 19 Stops.*

1. Montre .....	16 feet.	11. Quarte de Nazard .....	2 feet.
2. Bourdon .....	16 feet tone.	12. Tierce .....	1½ foot.
3. Montre .....	8 feet.	13. Grosse Fourniture.	
4. Flute .....	8 feet.	14. Fourniture.	
5. Gamba .....	8 feet.	15. Cymbale..	
6. Bourdon .....	8 feet tone.	16. Great Cornet.	
7. Gros Nazard.....	5½ feet.	17. Première Trompette .....	8 feet.
8. Prestant .....	4 feet.	18. Deuxième Trompette.....	8 feet.
9. Grosse Tierce ..	3½ feet.	19. Clarion .....	4 feet.
10. Nazard .....	2½ feet.		

*Positif (Choir), 14 Stops.*

20. Montre .....	8 feet.	27. Fourniture, III ranks.	
21. Bourdon .....	8 feet tone.	28. Cymbale, II ranks.	
22. Flute .....	8 feet.	29. Cornet, V ranks.	
23. Prestant.....	4 feet.	30. Trompette .....	8 feet.
24. Nazard .....	2½ feet.	31. Clarion .....	4 feet.
25. Doublette .....	2 feet.	32. Cromorne .....	8 feet tone.
26. Tierce .....	1½ foot.	33. Basson .....	8 feet.

*Bombarde, 4 Stops.*

34. Bombarde .....	16 feet.	36. Clarion .....	4 feet.
35. Trompette .....	8 feet.	37. Grand Cornet.	

*Recit., Echo, 14 Stops.*

38. Salicional .....	8 feet.	45. Doublette .....	2 feet.
39. Bourdon .....	8 feet tone.	46. Quintadena .....	2 feet.
40. Flute .....	8 feet.	47. Tierce .....	1½ foot.
41. Flute Harmonique .....	8 feet.	48. Trompette .....	8 feet.
42. Principal .....	4 feet.	49. Cor Anglais .....	8 feet.
43. Flute Douce .....	4 feet.	50. Hautbois .....	8 feet.
44. Quint.....	2½ feet.	51. Voix Humaine .....	8 feet tone.

*Swell, 3 Stops.*

52. Conoclite. | 53. Euphone. | 54. Terpomele.

*Pedal, 10 Stops.*

55. Flute Ouverte.....	16 feet.	60. Flute .....	4 feet.
56. Contre Basse .....	16 feet.	61. Bombarde .....	24 feet.
57. Bourdon .....	16 feet tone.	62. Trompette.....	12 feet.
58. Flute .....	8 feet.	63. Clarion .....	6 feet.
59. Quint .....	5½ feet.	64. Dermogloste.	

*Compass.*

Manuals, CC to f<sup>3</sup> in alt., 54 notes. | Pedal, FFF to tenor f, 25 notes.

## 23. ANTWERP.

The organ in the Cathedral at Antwerp was built by De la Haye, of Antwerp, in 1645, and repaired by Folder, of Brussels, in 1834. It has 44 stops, 3 Manuals, and Pedal. The following is a list of its contents :—

*Great Organ, 18 Stops.*

1. Montre .....	16 feet.	11. Tierce .....	1½ foot.
2. Bourdon .....	16 feet tone.	12. Fourniture.	
3. Montre .....	8 feet.	13. Cymbale.	
4. Bourdon .....	8 feet tone.	14. Cornet.	
5. Flute traversière .....	8 feet.	15. { Bombarde Discant } ..	16 feet.
6. Gros Nazard .....	5½ feet.	16. { Trompette Discant } ..	8 feet.
7. Prestant .....	4 feet.	16. { Trompette Basse } ..	
8. Flute .....	4 feet.	17. Clarion .....	4 feet.
9. Nazard .....	2½ feet.	18. Voix Humaine .....	8 feet tone.
10. Doublette .....	2 feet.		

*Choir Organ, 10 Stops.*

19. Montre .....	8 feet.	25. Fourniture.	
20. Bourdon .....	8 feet tone.	26. Cornet.	
21. Prestant .....	4 feet.	27. { Trompette Biscant } ..	8 feet.
22. Flute .....	4 feet tone.	27. { Trompette Dasse } ..	
23. Nazard .....	2½ feet.	28. Hautbois .....	8 feet.
24. Doublette .....	2 feet.		

*Swell Organ, 6 Stops.*

29. Montre discant .....	8 feet.	32. Flute .....	4 feet.
30. Bourdon .....	8 feet tone.	33. Doublette .....	2 feet.
31. Prestant .....	4 feet.	34. Cromorne .....	8 feet.

*Pedal Organ, 10 Stops.*

35. Montre .....	16 feet.	40. Flute .....	4 feet.
36. Bourdon .....	16 feet tone.	41. Fourniture.	
37. Prestant .....	8 feet.	42. Bombarde .....	16 feet.
38. Bourdon .....	8 feet tone.	43. Trompette.....	8 feet.
39. Prestant .....	4 feet.	44. Clarion .....	4 feet.

*Compass.*

Manuals, CC to f<sup>3</sup> in alt. | Pedals, FFF to tenor f.

## 24. ANTWERP.

The organ in the Church of St. Paul, at Antwerp, was built by Terbrugen, of Antwerp, in the year 1670, and was repaired and improved in 1825. It has 3 Manuals and Pedal, and 51 stops. The Pedal-board is very inconveniently



arranged, and the touch is disagreeable; otherwise it is a very satisfactory instrument, and rather superior to that in the Cathedral. The following is a list of its stops :—

*Great Organ, 19 Stops.*

1. Principal .....	16 feet.	11. Nazard .....	3 feet.
2. Bourdon .....	16 feet tone.	12. Doublette .....	2 feet.
3. Montre .....	8 feet.	13. Fourniture.	
4. Bourdon .....	8 feet tone.	14. Cymbale.	
5. Quintaton .....	8 feet tone.	15. Cornet.	
6. Grand Nazard .....	6 feet.	16. Bombarde. ....	16 feet.
7. Prestant .....	4 feet.	17. { Trompette Discant }	8 feet.
8. Flute .....	4 feet.	18. Clarion .....	4 feet.
9. Flute Traversière .....	4 feet.	19. Voix Humaine .....	8 feet.
10. Grosse Tierce.....	3½ feet.		

*Choir Organ, 15 Stops.*

20. Bourdon .....	8 feet tone.	28. Tierce .....	1½ foot.
21. Viol di Gamba .....	8 feet.	29. Fourniture.	
22. Prestant .....	4 feet.	30. Cornet.	
23. Flute .....	4 feet.	31. Trompette.....	8 feet.
24. Flute Traversière .....	4 feet.	32. Hautbois .....	8 feet.
25. Nazard .....	3 feet.	33. Vox Angelica .....	8 feet.
26. Doublette .....	2 feet.	34. Basson .....	8 feet.
27. Flute Champ.....	2 feet.		

*Echo Organ, 10 Stops.*

35. Bourdon .....	8 feet.	40. Tierce .....	1½ foot.
36. Prestant .....	4 feet.	41. Fourniture.	
37. Flute .....	4 feet.	42. Cornet.	
38. Nazard .....	3 feet.	43. Trompette. ....	8 feet.
39. Doublette .....	2 feet.	44. Voix Humaine.....	8 feet.

*Pedal Organ, 7 Stops.*

45. Prestant .....	16 feet.	49. Bombarde .....	16 feet.
46. Quintaton .....	16 feet tone.	50. Trompette . . .	8 feet.
47. Flute .....	8 feet.	51. Clarion .....	4 feet.
48. Prestant .....	4 feet.		

*Compass.*

Manuals, CC to f<sup>3</sup> in alt.

Pedals, CCC to tenor c.

25. BRUSSELS.

The organ in the Cathedral Church of St. Gudule, at Brussels, contains 47 stops, 3 Manuals, and Pedal containing a 32-foot reed. The following list shows the distribution and names of the stops :—

*Great Organ, 18 Stops.*

1. Bourdon Discant .....	32 feet tone.	11. Quint.....	1½ foot.
2. Montre .....	16 feet.	12. Fourniture.	
3. Bourdon .....	16 feet tone.	13. Cymbale.	
4. Prestant .....	8 feet.	14. Cornet.	
5. Bourdon .....	8 feet tone.	15. Cornet, lowest rank,	
6. Octave .....	4 feet.	Bourdon.....	16 feet.
7. Flute .....	4 feet.	16. Bombarde .....	16 feet.
8. Nazard .....	2½ feet.	17. Trompette.....	8 feet.
9. Doublette .....	2 feet.	18. Clarion Bass.....	4 feet.
10. Tierce .....	1½ foot.		

*Choir Organ, 12 Stops.*

19. Bourdon .....	16 feet tone.	25. Octave .....	2 feet.
20. Bourdon .....	8 feet tone.	26. Tierce .....	1 $\frac{3}{4}$ foot.
21. Flute .....	8 feet.	27. Larigot.....	1 $\frac{3}{4}$ foot.
22. Prestant.....	4 feet.	28. Fourniture.	
23. Flute .....	4 feet.	29. Cornet.	
24. Nazard .....	2 $\frac{3}{4}$ feet.	30. Hautbois .....	8 feet.

*Echo Organ, 7 Stops.*

31. Prestant.....	8 feet.	35. Doublette.....	2 feet.
32. Bourdon .....	8 feet tone.	36. Fourniture.	
33. Octave .....	4 feet.	37. Trompette .....	8 feet.
34. Flute .....	4 feet.		

*Pedal Organ, 10 Stops.*

38. Montre .....	16 feet.	43. Flute .....	4 feet.
39. Bourdon .....	16 feet tone.	44. Quart .....	2 feet.
40. Flute .....	8 feet.	45. Buzain .....	32 feet.
41. Bourdon .....	8 feet tone.	46. Bombarde .....	16 feet.
42. Quint .....	5 $\frac{1}{2}$ feet.	47. Trompette .....	8 feet.

## 26. LIEGE.

The organ in the Church of St. Martin, at Liege, built by Clerinex, at a cost of £1,000, has 3 Manuals and Pedal, and 35 sounding stops, of which the following is a list :—

*Great Organ, 14 Stops.*

1. Bourdon .....	16 feet tone.	8. Super-octave .....	2 feet.
2. Principal .....	8 feet.	9. Sesquialtera, III ranks ...	3 feet.
3. Bourdon .....	8 feet tone.	10. Fourniture, IV ranks.	
4. Gamba .....	8 feet.	11. Cornet, IV ranks.	
5. Flute Traversière. ....	8 feet.	12. Trompette .....	8 feet.
6. Prestant.....	4 feet.	13. Clarion.....	4 feet.
7. Flute pointue .....	4 feet.	14. Cromorne .....	8 feet.

*Choir, 9 Stops.*

15. Salicional .....	8 feet.	20. Sesquialtera.	
16. Bourdon .....	8 feet tone.	21. Cornet.	
17. Prestant.....	4 feet.	22. Trompette .....	8 feet.
18. Old Flute .....	4 feet.	23. Hautbois .....	8 feet.
19. Super-octave .....	2 feet.		

*Echo, 6 Stops.*

24. Bourdon .....	8 feet tone.	27. Super-octave .....	2 feet.
25. Prestant.....	4 feet.	28. Cornet.	
26. Flageolet.		29. Trompette .....	8 feet.

*Pedal, 6 Stops.*

30. Montre, metal .....	16 feet.	33. Montre.....	8 feet.
31. Flute, wood open.....	16 feet.	34. Bombarde* .....	16 feet.
32. Soubasse .....	16 feet tone.	35. Bombarde .....	8 feet.

\* The CCC pipe, 12 inches in diameter.

## 27. COLOGNE.

The organ in the Cathedral of Cologne was built in the year 1572, and repaired in 1734 by J. J. Schmitt, of Mülbeim. It was re-constructed and considerably enlarged by Engelbert Maas, of Cologne, in the years 1817 and 1821; more than half the pipes, the mechanism, &c., being made by him. The organ, since the completion of the nave of the cathedral, has been re-erected in the north transept. It has now 40 stops, 3 Manuals, and Pedal, the names and distribution of the former being as follow:—

*Great, 11 Stops.*

1. Principal, tin, in front.....	16 feet.	7. Rauschwerk, V ranks.....	2½ feet.
2. Octave .....	8 feet.	8. Cymbale, IV ranks.	
3. Viol di Gamba .....	8 feet.	9. Sesquialtera, II ranks.....	2½ feet.
4. Hohlflöte .....	8 feet.	10. Posaune .....	16 feet.
5. Super-octave.....	4 feet.	11. Trompette .....	8 feet.
6. Flautin .....	2 feet.		

*Choir, 11 Stops.*

12. Principal .....	8 feet.	18. Cornett, IV ranks.	
13. Rohrflöte .....	8 feet tone.	19. { Bourdon, Discant }	... 16 feet.
14. { Viol di Gamba, Discant }	8 feet.	20. { Contrafagot, Bass }	
15. { Violoncello Bass }		21. Clarion .....	8 feet.
16. Queerflöte, Discant ...	8 feet.	22. Krumhorn .....	8 feet tone.
17. Rohrflöte .....	4 feet tone.		
18. Super-octave.....	2 feet.	22. Glockenspiel.	

*Echo, 9 Stops.*

23. { Hohlflöte, Discant }	8 feet.	28. Super-flöte .....	2 feet.
24. { Hohlflöte, Bass }	8 feet.	29. Quint-flöte .....	1½ foot.
25. Queerflöte, Discant ...	8 feet.	30. Cymbale.	
26. Prestant.....	4 feet.	31. { Clarinett, Discant }	... 8 feet tone.
27. Hohlflöte .....	4 feet.	32. { Clarinett, Bass }	
28. Super-octave.....	2 feet.		

*Pedal, 9 Stops.*

32. Contra Violin ...	16 feet.	37. Posaune .....	16 feet.
33. Sub-bass .....	16 feet tone.	38. Trompette .....	8 feet.
34. Violin .....	8 feet.	39. Clarion .....	4 feet.
35. Octave Sub-bass .....	8 feet tone.	40. Clarinett .....	2 feet.
36. Super-octave.....	4 feet.		

*Compass.*

Manuals, CC to f<sup>3</sup> in alt., 54 notes.

Pedal, CCC to tenor c, 25 notes.

## 28. COLOGNE.

The organ in the Minorets Church is said to be no less than 400 years old. Its tone is exceedingly good, and it has 33 stops, of which the following is a list:—

*Great, 15 Stops.*

1. Bourdon .....	16 feet tone.	9. Salicena, oder Quint .....	2½ feet.
2. Prestant.....	8 feet.	10. Super-octave .....	2 feet.
3. { Gamba, Discant }	8 feet.	11. Quint .....	1½ foot.
4. { Gamba, Bass }	8 feet.	12. Mixture, III and IV ranks.	
5. Violoncello .....	8 feet.	13. { Trompette, Discant }	... 8 feet.
6. Hollpfeife .....	8 feet.	14. { Trompette, Bass }	
7. Octave .....	4 feet.	15. Clarion.....	4 feet.
8. Flöte .....	4 feet.	16. Vox Humana .....	8 feet tone.
9. Wald-flöte.....	4 feet.		

*Choir, 12 Stops.*

16. Hollpfeife .....	8 feet.	22. Octave .....	2 feet.
17. Flaut Traversière.....	8 feet.	23. Cymbale, III ranks.	
18. Prestant.....	4 feet.	24. Carillon, II ranks.	
19. Flaut Douce.....	4 feet.	25. Hautbois .....	8 feet.
20. Vox Angelica .....	4 feet.	26. Clarinett .....	8 feet tone.
21. Quint-flaut .....	2½ feet tone.	27. Vox Humana .....	8 feet tone.

*Pedal, 6 Stops.*

28. Principal, in front .....	16 feet.	31. Posaune .....	16 feet.
29. Octave Bass .....	8 feet.	32. Trompette .....	8 feet.
30. Super-octave.....	4 feet.	33. Clarion .....	4 feet.

*Accessory Stops.*

1. Choir to Great. | 2. Great to Pedal.

*Compass.*

Manuals, CC to d <sup>2</sup> in alt., no top c <sup>3</sup> sharp, 50 notes.		Pedal, CCC to EE, 17 notes.
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## 29. COLOGNE.

The organ in the Jesuits' Church at Cologne is a particularly fine instrument. It was originally built about the year 1750, and was repaired and enlarged in 1822. It has now 34 Stops, 3 Manuals, and a Pedal of 6 Stops.

*Great, 11 Stops.*

1. Principal .....	16 feet.	7. Super-octave .....	2 feet.
2. Prestant .....	8 feet.	8. Mixture, IV ranks.	
3. Gamba .....	8 feet.	9. Cornett, V ranks.	
4. Bourdon .....	8 feet tone.	10. { Trompette, Discant } .....	8 feet.
5. Octave .....	4 feet.	10. { Trompette, Bass } .....	
6. Quint.....	2½ feet.	11. Clarion .....	4 feet.

*Choir, 11 Stops.*

12. Prestant.....	8 feet.	18. Flautino .....	4 feet.
13. Gamba .....	8 feet.	19. Super-octave .....	2 feet.
14. Hollpfeife .....	8 feet.	20. Carillon, II ranks.	
15. Travers-flöte .....	8 feet.	21. Cornett, V ranks.	
16. Octave .....	4 feet.	22. Clarinett .....	8 feet tone.
17. Flöte .....	4 feet.		

*Echo, 6 Stops.*

23. Gemshorn .....	8 feet.	27. Flöte .....	4 feet.
24. Hollpfeife .....	8 feet.	27. Hautbois .....	8 feet.
25. Prestant .....	4 feet.	28. Vox Humana .....	8 feet tone.

*Pedal, 6 Stops.*

29. Sub-bass .....	16 feet.	32. Posaune .....	16 feet.
30. Octave .....	8 feet.	33. Trompette .....	8 feet.
31. Violone .....	8 feet.	34. Clarion.....	4 feet.

*Accessory Stops, Movements, &c.*

1. Choir to Great. | 3. Great to Pedal.  
2. Echo to Choir. | 4. Tremulant to Choir.

*Compass.*

Manuals, CC to f <sup>3</sup> in alt., 54 notes.		Pedal, CCC to FF, 1½ octave, 18 notes.
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## 30. COLOGNE.

The Church of Maria de Capitol, at Cologne, contains an imposing-toned organ, erected by Ludwig König, of Cologne, in 1767. In the year 1839 a Cornett and Flautino were added, and the organ raised to its present pitch by Engelbert Maas, of Cologne. It has now 40 stops, 3 Manuals, and Pedal of 10 stops. The following is the disposition :—

*Great, 12 Stops.*

1. Principal .....	16 feet.	7. Quint .....	2½ feet.
2. Octave .....	8 feet.	8. Mixture, IV ranks .....	2 feet.
3. Viola di Gamba .....	8 feet.	9. Cymbale, III ranks .....	1 foot.
4. Hollpfeife .....	8 feet.	10. Cornett, IV ranks .....	
5. Octave .....	4 feet.	11. Trompette .....	8 feet.
6. Flaut .....	4 feet.	12. Clarion.....	4 feet.

*Choir, 12 Stops.*

13. Prestant .....	8 feet.	20. Flautina .....	2 feet.
14. Viol di Gamba .....	8 feet.	21. Quint-flaut .....	1½ foot.
15. Hollpfeife .....	8 feet.	22. Carillon, II ranks .....	4 feet.
16. Flaut Traversière, Discant .....	8 feet.	23. Vox Humana .....	8 feet tone.
17. Octave .....	4 feet.	24. { Clarinett, Discant } .....	8 feet.
18. Flaut .....	4 feet.	{ Hautbois, Bass } .....	
19. Super-octave.....	2 feet.		

*Echo, 6 Stops.*

25. Hollpfeife .....	8 feet.	29. Hautbois, Discant .....	8 feet.
26. Gemshorn .....	4 feet.	30. { Vox Humana, Discant } .....	8 feet tone.
27. Flaut .....	4 feet tone.	{ Vox Humana, Bass } .....	
28. Super-octave.....	2 feet.		

*Pedal, 10 Stops.*

31. Bourdon .....	16 feet.	36. Octave .....	4 feet.
32. Viol di Gamba.....	8 feet.	37. Posaune .....	16 feet.
33. Prestant .....	8 feet.	38. Trompette .....	8 feet.
34. Gemshorn.....	8 feet.	39. Clarion .....	4 feet.
35. Quint .....	5½ feet.	40. Clarino.....	2 feet.

*Accessory Stops, Movements, &c.*

1. Great to Pedal.		2. Tremulant Echo.		3. Tremulant Positif.
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*Compass.*

Manuals, CC to f <sup>3</sup> in alt., 54 notes.		Pedal, CCC to Gamut A, 22 notes.
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## 31. COLOGNE.

The organ in the Church of St. Columba, at Cologne, was made by König, in 1753, and presents the remarkable peculiarity, for a German organ of the size, of being entirely without Pedal Stops. The following is a list of the contents of the above-named instrument :—

*Great, 12 Stops.*

1. Prestant.....	16 feet.	7. Super-octave .....	2 feet.
2. Principal .....	8 feet.	8. Sesquialtera, III ranks .....	2½ feet.
3. Viol di Gamba.....	8 feet.	9. Mixture, IV ranks .....	2 feet.
4. Gedact .....	8 feet tone.	10. Posaune .....	16 feet.
5. Octava .....	4 feet.	11. Trompette .....	8 feet.
6. Flaut Douce.....	4 feet.	12. Clarion.....	4 feet.

*Choir, 9 Stops.*

13. Gedact .....	8 feet tone.	18. Quint-flaut .....	1½ feet.
14. Prestant .....	4 feet.	19. Carillon, II ranks.	
15. Flaut Traversière.....	4 feet.	20. Clarinett, Discant .....	8 feet tone.
16. Flaut Douce.....	4 feet.	21. Vox Humana .....	8 feet tone.
17. Octava .....	2 feet.		

## 32. COLOGNE.

The organ in the Church of St. Ursula is a new instrument, and was built by Heinrich, of Cologne. It contains 25 stops, 2 Manuals, and a Pedal of 6 stops. The following is a list of its contents :—

*Great, 11 Stops.*

1. Bourdon .....	16 feet tone.	7. Quint .....	2½ feet.
2. Principal .....	8 feet.	8. Octave .....	2 feet.
3. Bourdon .....	8 feet tone.	9. Mixture, IV ranks.	
4. Gamba .....	8 feet.	10. Cornett.	
5. Octave .....	4 feet.	11. Trompette .....	8 feet.
6. Flote .....	4 feet.		

*Choir, 8 Stops.*

12. Prestant .....	8 feet.	16. Flaut .....	4 feet.
13. Bourdon .....	8 feet tone.	17. Octave .....	2 feet.
14. Salicional .....	8 feet.	18. Oboe .....	8 feet.
15. Fernflote .....	4 feet.	19. Basset Horn .....	8 feet.

*Pedal, 6 Stops.*

20. Sub-bass .....	16 feet.	23. Posaune .....	16 feet.
21. Violoncello .....	8 feet.	24. Trompette .....	8 feet.
22. Octave Bass .....	8 feet.	25. Clarion .....	4 feet.

## 33. BONN.

There is a fine old organ in the Cathedral at Bonn, containing 29 sounding stops, among which is a particularly fine 16-feet Posaune on the Pedal, of wood. The instrument has 2 Manuals and Pedal, among which the stops are thus distributed :—

*Great, 12 Stops.*

1. Bourdon .....	16 feet tone.	7. Quint .....	3 feet.
2. Principal .....	8 feet.	8. Super-octave.....	2 feet.
3. Bourdon .....	8 feet tone.	9. Octavine .....	1 foot.
4. Gamba .....	8 feet.	10. Mixture.	
5. Salicional .....	8 feet.	11. Trompette .....	8 feet.
6. Octave .....	4 feet.	12. Clarion .....	4 feet.

*Choir, 11 Stops.*

13. Bourdon .....	8 feet tone.	19. Octave .....	2 feet.
14. Flote, Discant .....	8 feet.	20. Mixture.	
15. Principal .....	4 feet.	21. Trompette.....	8 feet.
16. Octave .....	4 feet.	22. Bassoon .....	8 feet.
17. Rohrflote .....	4 feet tone.	23. Vox Humana .....	8 feet.
18. Quint.....	3 feet.		

*Pedal, 6 Stops.*

24. Sub-bass .....	16 feet tone.	27. Posaune .....	16 feet.
25. Principal .....	8 feet.	28. Posaune .....	8 feet.
26. Violoncello .....	8 feet.	29. Posaune .....	4 feet.

## 34. BONN.

The organ in the Protestant Church at Bonn, by Weil, is an excellent instrument. It has 19 stops, of which the following is a list :—

*Great, 9 Stops.*

1. Bourdon .....	16 feet tone.	6. Flute.....	4 feet.
2. Principal .....	8 feet.	7. Salicional.....	4 feet.
3. Bourdon .....	8 feet tone.	8. Super-octave .....	2 feet.
4. Gamba .....	8 feet.	9. Trompette .....	8 feet.
5. Octave ..	4 feet.		

*Choir, 7 Stops.*

10. Flöte .....	8 feet.	14. Rohrflöte.....	4 feet.
11. Hohlflöte .....	8 feet.	15. Super-octave .....	2 feet.
12. Harmonica .....	8 feet.	16. Krumhorn .....	8 feet.
13. Principal .....	4 feet.		

*Pedal, 3 Stops.*

17. Principal... 16 feet.		18. Sub-bass... 16 feet tone.		19. Octave... 8 feet.
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## 35. COBLENTZ.

The organ in the Church of Castor, at Coblenz, has 39 stops, distributed among 3 Manuals and Pedal, as follow :—

*Great, 16 Stops.*

1. Gross Gedact .....	16 feet tone.	10. Quint .....	2 $\frac{2}{3}$ feet.
2. Principal .....	8 feet.	11. Super-octave .....	2 feet.
3. Viol di Gamba .....	8 feet.	12. Vox Angelica .....	2 feet.
4. Hollpfeife .....	8 feet.	13. Terz .....	1 $\frac{3}{4}$ foot.
5. Quintadena .....	8 feet tone.	14. Mixture .....	1 foot.
6. Coppel .....	8 feet.	15. Cornett.	
7. Octave .....	4 feet.	16. { Trompette, Treble }	} ... 8 feet.
8. Salicional .....	4 feet.	{ Trompette, Bass }	
9. Flaut .....	4 feet.		

*Choir, 9 Stops.*

17. Bourdon .....	8 feet tone.	22. Octave .....	2 feet.
18. Flaut Ravenna .....	8 feet.	23. Mixture.	
19. Principal .....	4 feet.	24. Krumhorn .....	8 feet tone.
20. Flaut ..	4 feet.	25. Vox Humana .....	8 feet tone.
21. Quint.....	2 $\frac{3}{4}$ feet.		

*Echo, 7 Stops.*

26. Bourdon .....	8 feet tone.	30. Octave .....	2 feet.
27. Flaut .....	4 feet.	31. Trompette .....	8 feet.
28. Salicional .....	4 feet.	32. Vox Humana .....	8 feet tone
29. Quint.....	2 $\frac{3}{4}$ feet.		

*Pedal, 7 Stops.*

33. Violon Bass .....	16 feet.	37. Posaune Bass .....	16 feet.
34. Sub-bass .....	16 feet tone.	38. Clarion Bass .....	4 feet.
35. Principal Bass .....	8 feet.	39. Cornet Bass .....	2 feet.
36. Octave Bass .....	4 feet.		

*Accessory Stops, Movements, &c.*

1. Choir to Great.		2. Great to Pedal.		3. Tremulant Echo.
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*Compass.*

Manuals, CC to d <sup>3</sup> in alt., 51 notes.		Pedal, CCC to Gamut G, 20 notes.
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## 36. STRASBOURG.

Strasbourg has long been famous for its bell-founders, clock-makers, organ-builders, and for its Freemasons. So early as the 13th century there were several organs in its cathedral very curious in their structure, and sonorous in their tone. The present instrument was built by Silbermann, of Strasbourg, and was completed in August, 1716. It has 42 sounding stops, of which number 7 are on the Pedal; 2,242 pipes; and 6 bellows, 12 feet by 6. The organ is placed on the north side of the nave, where it projects from the triforium about 50 feet above the pavement of the cathedral. The following are the particulars of the instrument :—

*Great, 13 Stops.*

1. Bourdon .....	16 feet tone.	9. Cymbale.	
2. Montre, tin .....	8 feet.	10. Cornet, V ranks.	
3. Bourdon .....	8 feet tone.	11. { Trompette, Discant } ...	8 feet.
4. Prestant.....	4 feet.	12. Trompette .....	8 feet.
5. Nazard ..	2½ feet.	13. { Clarion, Discant } .....	4 feet.
6. Doublette .....	2 feet.	13. { Clarion, Basse } .....	4 feet.
7. Tierce ....	1½ foot.		
8. Fourniture.			

*Choir, 11 Stops.*

14. Montre, tin .....	8 feet.	20. Tierce .....	1½ foot.
15. Bourdon .....	8 feet tone.	21. Larigot.....	1½ foot.
16. Prestant.....	4 feet.	22. Fourniture.	
17. Flute .....	4 feet.	23. Cymbale.	
18. Nazard .....	2½ feet.	24. { Cromorne, Discant } ...	8 feet.
19. Doublette .....	2 feet.	24. { Cromorne, Basse } ...	8 feet.

*Echo, 11 Stops.*

25. Montre, tin .....	8 feet.	31. Flute Magique .....	4 feet.
26. Gamba .....	8 feet.	32. Doublette.....	2 feet.
27. Bourdon .....	8 feet tone.	33. Hautbois.....	8 feet.
28. Salicional ....	8 feet.	34. Voix Humaine .....	8 feet.
29. Prestant.....	4 feet.	35. { Trompette, Discant } ...	8 feet.
30. Flute .....	4 feet.	35. { Basson, Basse } .....	8 feet.

*Pedal, 7 Stops.*

36. Montre, tin .....	16 feet.	40. Bombarde .....	16 feet.
37. Bourdon .....	16 feet tone.	41. Trompette .....	8 feet.
38. Montre .....	8 feet.	42. Clarion.....	4 feet.
39. Prestant.....	4 feet.		

*Accessory Stops, Movements, &c.*

Tremulant to Great.

Tremulant to Echo.

The Echo and Choir Manuals couple to the Great by being drawn out a little.

*Compass.*Manuals, CC to c<sup>8</sup> in alt., 49 notes.

Pedal, CCC to tenor c, 25 notes.



## 37. STRASBOURG.

The organ in St. Thomas's Church is also the work of Silbermann, and bears the date of 1740. It has undergone some alterations by Weltzer, a resident organ-builder in Strasbourg. It contains 36 sounding stops, of which number 7 are on the Pedal. The distribution of the stops is as follows :—

*Great, 13 Stops.*

1. Bourdon, stopped metal to the tenor c key, then wood	16 feet tone.	8. Doublette.....	2 feet.
2. Montre .....	8 feet.	9. Fourniture, IV ranks.	
3. Bourdon, metal .....	8 feet tone.	10. Cornet, V ranks.	
4. Salicional .....	8 feet.	11. { Trompette, Discant } ...	8 feet.
5. Prestant.....	4 feet.	{ Trompette, Basse } .....	
6. Flute .....	4 feet.	12. { Clarion, Discant } .....	4 feet.
7. Nazard .....	2½ feet.	{ Clarion, Basse } .....	
		13. Voix Humaine.....	8 feet.

*Choir, 8 Stops.*

14. Bourdon, metal .....	8 feet tone.	18. Flute .....	4 feet.
15. Quintadena .....	8 feet.	19. Nazard.....	3 feet.
16. Prestant.....	4 feet.	20. Doublette.....	2 feet.
17. Cordedain.....	4 feet.	21. Cromorne.....	8 feet.

*Echo, 8 Stops.*

22. Montre .....	8 feet.	27. Cordedain, a kind of flaut	
23. Viol di Gamba .....	8 feet.	traverse, of metal.....	4 feet.
24. Bourdon, metal .....	8 feet tone.	28. Trompette .....	8 feet.
25. Salicional .....	8 feet tone.	29. Basson .....	8 feet.
26. Flute .....	4 feet.		

*Pedal, 7 Stops.*

30. Principal, wood .....	16 feet.	34. Bombarde, wood.....	16 feet.
31. Octave .....	8 feet.	35. Trompette, metal .....	8 feet.
32. Quint.....	6 feet.	36. Clarion, metal.....	4 feet.
33. Prestant.....	4 feet.		

*Compass.*

Manuals, CC to c<sup>3</sup> in alt., 49 notes. | Pedal, CCC to tenor c, 25 notes.  
The Echo and Choir Manuals move and couple to Great.

## 38. STRASBOURG.

The organ in the Protestant Church, called the "Temple neuf," the work of Silbermann, was destroyed, together with the building in which it stood, during the Prussian War, and, like the last, an excellent instrument, being especially remarkable for the beauty of its Diapasons and Metal Flutes. It had 46 stops, 3 Manuals, and Pedal, as follows :—

*Great, 14 Stops.*

1. Bourdon .....	16 feet tone.	9. Tierce .....	1½ foot.
2. Montre .....	8 feet.	10. Fourniture, III ranks.....	1 foot.
3. Bourdon .....	8 feet tone.	11. Cymbale, III ranks.....	2 feet.
4. Quintaton .....	8 feet.	12. Cornet, V ranks.	
5. Prestant.....	4 feet.	13. { Trompette, Discant } ...	8 feet.
6. Flute .....	4 feet tone.	{ Trompette, Basse } .....	
7. Quint.....	2½ feet.	14. { Clarion, Discant } .....	4 feet.
8. Doublette .....	2 feet.	{ Clarion, Basse } .....	

*Choir, 10 Stops.*

15. Bourdon .....	8 feet tone.	20. Doublette.....	2 feet.
16. Salicional .....	8 feet.	21. Larigot .....	1½ foot.
17. Prestant.....	4 feet.	22. Hautbois, Discant .....	8 feet.
18. Flute .....	4 feet tone.	23. Cromorne.....	8 feet.
19. Jeu Celeste .....	4 feet.	24. Cor de basset .....	8 feet.

*Echo, 13 Stops.*

25. Bourdon .....	16 feet tone.	32. Sifflute .....	1 foot.
26. Montre .....	8 feet.	33. Fourmiture, III ranks.	
27. Bourdon .....	8 feet tone.	34. Cornett, IV ranks.	
28. Viol di Gamba .....	8 feet.	35. Trompette .....	8 feet.
29. Prestant.....	4 feet.	36. Basson .....	8 feet.
30. Flute .....	4 feet tone.	37. Vox Humana .....	8 feet.
31. Doublette .....	2 feet.		

*Pedal, 9 Stops.*

38. Principal, wood .....	16 feet.	43. Plein jeu, II ranks.	
39. Bourdon (open wood) .....	16 feet.	44. Bombarde, metal .....	16 feet.
40. Octave .....	8 feet.	45. Trompette, metal .....	8 feet.
41. Violoncello .....	8 feet.	46. Clarion, metal.....	4 feet.
42. Prestant.....	4 feet.		

## 39. FREIBURG IN BRESGAU.

The Cathedral of Freiburg in Bresgau, so long celebrated for its beautiful Gothic spire, contains two organs, both of which are small, but of remarkably sweet and full tone. The one in the nave is very old, having been put up in 1520; that in the Choir, which is about the same size, was built in 1811. The Nave organ has 24 stops, 2 Manuals, and Pedal, of which the following are the particulars:—

*Great, 10 Stops.*

1. Bourdon .....	16 feet tone.	6. Nazard .....	2½ feet.
2. Principal .....	8 feet.	7. Super-octave.....	2 feet.
3. Bourdon .....	8 feet tone.	8. Mixture, III ranks.	
4. Octave .....	4 feet.	9. Cymbale, III ranks.	
5. Flöte .....	4 feet tone.	10. Trompette.....	8 feet.

*Choir, 10 Stops.*

11. Principal .....	8 feet.	16. Flöte .....	4 feet.
12. Bourdon .....	8 feet tone.	17. Waldfloete .....	2 feet.
13. Salicional .....	8 feet.	18. Sesquialtera, II ranks.....	2½ feet.
14. Gamba .....	8 feet.	19. Cromorne .....	8 feet tone.
15. Octave .....	4 feet.	20. Vox Humana .....	8 feet tone.

*Pedal, 4 Stops.*

21. Montre .....	16 feet.	23. Octave .....	8 feet.
22. Bourdon .....	16 feet tone.	24. Posaune, to FFF.....	16 feet.

*Compass.*

Manual, CC, short octave, up to a<sup>2</sup> in alt. | Pedal, CCC to CC, one octave complete.

## 40. FREIBURG IN BRESGAU.

The organ in the Lutheran Church at Freiburg in Bresgau was built about 300 years ago, but has lately been repaired. It has 2 Manuals and Pedal, and 32 stops, of which the following is a list :—

*Great, 14 Stops.*

1. Bourdon .....	16 feet tone.	8. Quint.....	2 $\frac{2}{3}$ feet.
2. Principal .....	8 feet.	9. Super-octave .....	2 feet.
3. Hohlflöte .....	8 feet.	10. Waldflöte ...	2 feet.
4. Bourdon .....	8 feet tone.	11. Cymbale, III ranks.	
5. Octave .....	4 feet.	12. Mixture, II ranks.	
6. Flöte .....	4 feet.	13. Cornett, V ranks.	
7. Fugara .....	4 feet.	14. Trompette.....	8 feet.

*Choir, 10 Stops.*

15. Principal .....	8 feet.	20. Gemshorn .....	4 feet.
16. Bourdon .....	8 feet tone.	21. Flöte .....	4 feet.
17. Gamba .....	8 feet.	22. Rohrflöte .....	4 feet tone.
18. Salicional .....	8 feet.	23. Super-octave .....	2 feet.
19. Octave .....	4 feet.	24. Trompette.....	8 feet.

*Pedal, 8 Stops.*

25. Montre .....	16 feet.	29. Bourdon .....	8 feet tone.
26. Bourdon .....	16 feet tone.	30. Mixture, III ranks.	
27. Quintaton .....	16 feet tone.	31. Posaune.....	16 feet.
28. Principal .....	8 feet.	32. Trompette.....	8 feet.

*Compass.*

Manuals, CC to f<sup>3</sup> in alt., 54 notes.  
Pedal, CCC to Gamut G, 1 $\frac{1}{2}$  octave.

*Coupler.*

Choir to Great.

## 41. FRANKFORT.

The very large and fine organ in St. Paul's Church, Frankfort, was built by Walker, of Ludwigsburg, and was opened in the month of June, 1833. It contains 74 stops, 3 Manuals, and 2 Pedals, and 12 Bellows 14 feet long by 5 $\frac{1}{2}$  broad. The draw-stops are placed over as well as at the sides of the Manuals. The quality and varied tones of the numerous 16, 8, and 4 feet Manual Flue stops are deserving of all praise. The following is an enumeration of the stops in this organ :—

*Great, 23 Stops.*

1. Manual-Untersatz .....	32 feet tone.	13. Gemshorn-terz .....	3 $\frac{1}{2}$ feet.
2. Principal, in front .....	16 feet.	14. Quint .....	2 $\frac{2}{3}$ feet.
3. Gamba major .....	16 feet.	15. Super-octave, II ranks ...	2 feet.
4. Tibia major .....	16 feet tone.	16. Waldflöte .....	2 feet.
5. Octave .....	8 feet.	17. Terz Discant .....	1 $\frac{1}{2}$ feet.
6. Viol di Gamba.....	8 feet.	18. Klein Octave .....	1 foot.
7. Gemshorn .....	8 feet.	19. Mixture, IV ranks.	
8. Jubalflöte, 2 mouths .....	8 feet.	20. Scharf, V ranks.	
9. Quint .....	5 $\frac{1}{2}$ feet.	21. Cornett, V ranks.	
10. Octave .....	4 feet.	22. Tuba .....	16 feet.
11. Hollpfeife .....	4 feet.	23. Trompette .....	8 feet.
12. Fugara .....	4 feet.		

*Choir, 15 Stops.*

24. Bourdon .....	16 feet tone.	32. Flauto Traverso .....	4 feet.
25. Principal, in front .....	8 feet.	33. Rohrflöte .....	4 feet tone.
26. Salicional .....	8 feet.	34. Gemshorn Quint .....	2½ feet.
27. Dolce .....	8 feet.	35. Octave .....	2 feet.
28. Gedact .....	8 feet tone.	36. Mixture, V ranks .....	2 feet.
29. Quintaton .....	8 feet tone.	37. Posaune .....	8 feet.
30. Quintflöte .....	5½ feet tone.	38. Vox Humana .....	8 feet.
31. Octave .....	4 feet.		

*Echo, 14 Stops.*

39. Quintaton .....	16 feet tone.	46. Dolcissimo .....	4 feet.
40. Principal .....	8 feet.	47. Flute d'amour .....	4 feet.
41. Harmonica .....	8 feet.	48. Gedact .....	4 feet tone.
42. Bifaro .....	8 feet.	49. Nazard .....	2½ feet.
43. Hohlflöte .....	8 feet.	50. Flautino .....	2 feet.
44. Gedact, two mouths .....	8 feet tone.	51. Hautbois .....	8 feet.
45. Spitzflöte .....	4 feet.	52. Physharmonica .....	8 feet.

*First Pedal, 15 Stops.*

53. Contra Bass, open .....	32 feet.	61. Terza .....	6½ feet.
54. Sub-bass, open .....	32 feet.	62. Quint .....	5½ feet.
55. Principal Bass, in front ..	16 feet.	63. Octave .....	4 feet.
56. Octave Bass .....	16 feet.	64. Posaune ..	16 feet.
57. Violon .....	16 feet.	65. Trompette .....	8 feet.
58. Quint .....	10½ feet.	66. Clarino .....	4 feet.
59. Octave .....	8 feet.	67. Cornettino .....	2 feet.
60. Violoncello .....	8 feet.		

*Second Pedal, 7 Stops.*

68. Sub-bass .....	16 feet tone.	72. Flöte .....	4 feet.
69. Violon d'amour .....	16 feet.	73. Waldflöte .....	2 feet.
70. Principal .....	8 feet.	74. Fagotto .....	16 feet.
71. Flöte .....	8 feet.		

*Accessory Stops, Movements, &c.*

1. Choir to Great.	4. Choir to second Pedal.
2. Echo to Choir.	5. Second to first Pedal.
3. Great to first Pedal.	6 to 10. Five Wind-trunk valves.

*Compass.*

Manuals, CC to f <sup>a</sup> in alt., 54 keys.	Pedal, CCC to tenor d, 27 keys.
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## 42. FULDA.

The organ in the Town Church at Fulda was constructed by G. F. Ratzmann, of Ohrdruff. It has 48 sounding stops, 3 Manuals, and Pedal of 9 stops; also bellows measuring 12 feet by 8. The following is its disposition:—

*Great, 15 Stops.**Large Scale and full intonation.*

1. Principal, tin, the 16 feet octave in front .....	16 feet.	11. Octave, II ranks, tin .....	2 feet & 1 ft.
2. Bourdon, wood ..	16 feet tone.	12. Mixture, IV ranks, c <sup>1</sup> , c <sup>1</sup> , g <sup>1</sup> , c <sup>2</sup> .....	2 feet.
3. Principal, tin, in front ..	8 feet.	13. Cymbale, III ranks, g <sup>1</sup> , c <sup>2</sup> , g <sup>2</sup> ..	1½ feet.
4. Bourdon, wood .....	8 feet tone.	14. Cornett, III ranks, the first and second ranks, wood stopped, c, g, c .....	8 feet tone.
5. Hohlflöte, wood .....	8 feet.	15. Trompette, tin, with free reeds .....	8 feet.
6. Quint, wood Bass, tin Treble ..	5½ feet.		
7. Gamba Quint .....	5½ feet.		
8. Octave, tin .....	4 feet.		
9. Hohlflöte, wood ..	4 feet.		
10. Quint, tin .....	2½ feet.		

*Choir, 12 Stops.**Smaller Scale and clear intonation.*

16. Principal, the bass and tenor octaves of wood, the treble of tin ..... 16 feet.	21. Octave, tin ..... 4 feet.
17. Principal, tin in front ..... 8 feet.	22. Flöte, wood ..... 4 feet.
18. Gemshorn, the bass and tenor octaves of wood, the treble of tin ..... 8 feet.	23. Klein Gedact, tin ..... 4 feet tone.
19. Still Gedact, wood ..... 8 feet tone.	24. Waldflöte, tin ..... 4 feet.
20. Quintaton, tin ..... 8 feet tone.	25. Quint, tin ..... 2½ feet.
	26. Octave, II ranks, tin ..... 2 feet & 1 ft.
	27. Mixture, IV ranks, tin, c <sup>1</sup> , e <sup>1</sup> , g <sup>1</sup> , c <sup>2</sup> ..... 2 feet.

*Echo, 12 Stops.**Smaller Scale and delicate intonation.*

28. Quintaton, the bass octave of wood, the remainder of tin ..... 16 feet tone.	34. Spitzflöte, tin ..... 4 feet.
29. Geigen Principal, tin in front ..... 8 feet.	35. Flöte Traversière, wood... 4 feet.
30. Salicional ..... 8 feet.	36. Flageolet, tin ..... 2 feet.
31. Gedact, wood ..... 8 feet tone.	37. Sifflöte, tin ..... 1 foot.
32. Flöte Traversière, wood... 8 feet.	38. Mixture, III ranks, tin, c <sup>1</sup> , g <sup>1</sup> , c <sup>2</sup> ..... 2 feet.
33. Octave, tin ..... 4 feet.	39. Clavioline ..... 8 feet.

*Pedal, 8 Stops.**Largest Scale and fullest intonation.*

40. Untersatz, wood ..... 32 feet tone.	45. Octaven Bass, wood ..... 8 feet.
41. Principal Bass, wood ..... 16 feet.	46. Violoncello, wood ..... 8 feet.
42. Violon, wood ..... 16 feet.	47. Traversen Bass ..... 8 feet.
43. Sub-bass, wood ..... 16 feet tone.	48. Posaune, wooden tubes ... 16 feet.
44. Traversen Bass, wood..... 16 feet.	

*Accessory Stops, Movements, &c.*

1. Coupler Choir to Great.	5. Tremulant.
2. Coupler Echo to Great.	6, 7, 8, 9. Four double action composition Pedals.
3. Coupler Great to Pedal.	
4. Coupler Choir to Pedal.	

*Compass.*

Manuals, CC to f <sup>0</sup> in alt., 54 notes.	Pedal, CCC to tenor d, 27 notes.
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## 43. GOTHÄ.

The organ in St. Augustine's Church, at Gotha, was built in 1841, by Schulze, and contains 34 stops, of which the following is a list :—

*Great, 15 Stops.*

1. Bourdon to the fiddle g key 32 feet tone.	6. Hohlflöte..... 8 feet.
2. Principal ; bass and tenor octaves of wood ; from the middle c <sup>1</sup> key up- wards, of tin ..... 16 feet.	7. Octave ..... 4 feet.
3. Bourdon ..... 16 feet tone.	8. Hohlflöte.. ..... 4 feet.
4. Octave ; bass octave of wood ; from tenor c up- wards, of tin..... 8 feet.	9. Gedact ..... 4 feet tone.
5. Gamba ..... 8 feet.	10. Quint ..... 2½ feet.
	11. Octave ... 2 and 1.
	12. Mixture, V ranks .. 2 feet.
	13. Cymbale, III ranks ..... 2 feet.
	14. Cornett, III ranks.
	15. Trompette ..... 8 feet.

*Choir, 11 Stops.*

16. Lieblich Gedact .....	16 feet tone.	21. Lieblich Gedact .....	8 feet tone.
17. Geigen Principal; bass octave wood .....	8 feet.	22. Octave .....	4 feet.
18. Salicional .....	8 feet.	23. Flauto Douce .....	4 feet.
19. Flauto Traverso .....	8 feet.	24. Quinte .....	2½ feet.
20. Harmonica... ..	8 feet.	25. Octave .....	2 feet.
		26. Scharf, III ranks .....	2 feet.

*Pedal, 8 Stops.*

27. Principal Bass .....	16 feet.	31. Violoncello .....	8 feet.
28. Violon Bass .....	16 feet.	32. Gedact Bass .....	8 feet tone.
29. Sub-bass .....	16 feet tone.	33. Posaune .....	32 feet.
30. Octave Bass .....	8 feet.	34. Posaune .....	16 feet.

## 44. GOTHA.

The organ in the Church of St. Margaret, at Gotha, was also built by Schulze. It contains 26 stops, distributed as follows :—

*Great or Lower Manual, 13 Stops.*

1. Principal .....	16 feet.	8. Quint, stopped wood .....	5½ feet tone. <sup>12</sup>
2. Bourdon... ..	16 feet tone.	9. Octave .....	4 feet.
3. Principal .....	8 feet.	10. Flote .....	4 feet.
4. Gamba .....	8 feet.	11. { Quint .....	2½ feet.
5. Hohlflöte .....	8 feet.	{ Octave .....	2 feet.
6. Gedact .....	8 feet tone.	12. Mixture, V ranks .....	2 feet.
7. Harmonica .....	8 feet.	13. Scharf, III ranks .....	2 feet.

*Choir or Upper Manual, 7 Stops.*

14. Lieblich Gedact .....	16 feet tone.	18. Flauto Traverso .....	8 feet.
15. Geigen Principal .....	8 feet.	19. Principal .....	4 feet.
16. Salicional .....	8 feet.	20. Flauto Traverso .....	4 feet.
17. Lieblich Gedact .....	8 feet tone.		

*Pedal, 6 Stops.*

21. Principal Bass .....	16 feet.	24. Octaven Bass .....	8 feet.
22. Violon .....	16 feet.	25. Violoncello .....	8 feet.
23. Sub-bass .....	16 feet tone.	26. Posaune .....	16 feet.

## 45. HAARHAUSEN.

The organ in the Church at Haarhausen, in the Dukedom of Gotha, has 2 Manuals and Pedal, and 22 stops. The following is its disposition :—

*Great, 10 Stops.*

1. Quintaton .....	16 feet tone.	6. Octave .....	4 feet.
2. Principal, English tin .....	8 feet.	7. Quint .....	2½ feet.
3. Gedact .....	8 feet tone.	8. Super-octave .....	2 feet.
4. Gamba .....	8 feet.	9. Mixture, IV ranks .....	2 feet.
5. Hohlflöte, of wood .....	8 feet.	10. Cymbale, III ranks .....	1 foot.

*Choir, 8 Stops.*

11. Flöte, to tenor c .....	8 feet.	15. Nachthorn .....	4 feet.
12. Still Gedact .....	8 feet tone.	16. Octave .....	2 feet.
13. Quintaton .....	8 feet tone.	17. Sesquialtera, II ranks .....	2½ feet.
14. Principal, English tin .....	4 feet.	18. Mixture, IV ranks .....	1 foot.

*Pedal, 4 Stops.*

19. Violon Bass .....	16 feet.	21. Octaven Bass .....	8 feet.
20. Sub-bass .....	16 feet tone.	22. Posaunen Bass.....	16 feet.

*Accessory Stops, &c.*

1. Choir to Great.	3, 4, 5. Three Wind-trunk valves.
2. Great to Pedal.	

## 46. ELTSLEBEN.

The organ in the Church at Eltsleben, in the Princedom of Schwartzburg, was built by Francis Volkland, of Erfurt. It has 2 Manuals and Pedal, and 28 stops, the names and distribution of which latter are as follow :—

*Great, 12 Stops.*

1. Quintaton .....	16 feet tone.	7. Quint .....	2 $\frac{3}{4}$ feet.
2. Principal, English tin .....	8 feet.	8. Super-octave .....	2 feet.
3. Bourdon.....	8 feet tone.	9. Sesquialtera, II ranks.....	2 $\frac{3}{4}$ feet.
4. Gamba .....	8 feet.	10. Mixture, VI ranks .....	2 feet.
5. Flauto Traverso .....	8 feet.	11. Cymbale, IV ranks.....	1 foot.
6. Octave .....	4 feet.	12. Trompette .....	8 feet.

*Choir, 10 Stops.*

13. Gedact .....	8 feet tone.	18. Hohlflöte .....	4 feet.
14. Quintaton .....	8 feet tone.	19. Octave .....	2 feet.
15. Principal, English tin .....	4 feet.	20. Sesquialtera, II ranks ..	2 $\frac{3}{4}$ feet.
16. Nachthorn.....	4 feet.	21. Mixture, IV ranks ..	1 $\frac{1}{2}$ foot.
17. Spitzflöte .....	4 feet.	22. Vox Humana .....	8 feet tone.

*Pedal, 6 Stops.*

23. Violon Bass .....	16 feet.	26. Violon Bass .....	8 feet.
24. Sub-bass.....	16 feet tone.	27. Hohlflöten Bass ..	4 feet.
25. Octaven Bass .....	8 feet.	28. Posaunen Bass.....	16 feet.

*Accessory Stops, Movements, &c.*

1. Coupler Choir to Great.	4, 5, 6. Three Wind-trunk valves to Manuals and Pedal.
2. Coupler Great to Pedal.	7. Cymbelstern, g, h, d, g.
3. Tremulant to Choir.	8. Cymbelstern, c, e, g, c.

## 47. WALTERSHAUSEN.

The fine organ at Waltershausen, in the Dukedom of Gotha, was built by G. H. Trost, of Altenbourg, in the years 1726 to 1736. It contains 3 Manuals and Pedal, and 50 sounding stops ; the names and distribution of which latter are as follow :—

*Great, 17 Stops.*

1. Bourdon.....	16 feet tone.	10. Rohrflöte ..	4 feet tone.
2. Quintaton .....	16 feet tone.	11. Salicional .....	4 feet.
3. Prestant, Eng. tin, in front	8 feet.	12. Quint .....	2 $\frac{3}{4}$ feet.
4. Bourdon.....	8 feet tone.	13. Super-octave .....	2 feet.
5. Gamba .....	8 feet.	14. Sesquialtera, II ranks ..	2 $\frac{3}{4}$ feet.
6. Gemshorn .....	8 feet.	15. Mixture, VIII ranks .....	2 feet.
7. Quintaton .....	8 feet tone.	16. Fagotto .....	16 feet.
8. Unda Maris .....	8 feet tone.	17. Trompette .....	8 feet.
9. Octave .....	4 feet.		

*Choir, 12 Stops.*

18. Spitzflöte Major .....	8 feet.	24. Gemshorn Quint .....	2½ feet.
19. Nachthorn .....	8 feet.	25. Nasat .....	2½ feet.
20. Principal, Eng. tin, in front .....	4 feet.	26. Octave .....	2 feet.
21. Quintaton .....	4 feet tone.	27. Sesquialtera .....	1½ foot.
22. Gemshorn .....	4 feet.	28. Mixture, IV ranks .....	2½ feet.
23. Flauto Douce .....	4 feet.	29. Hautbois .....	8 feet.

*Echo, 7 Stops.*

30. Geigen Principal, Eng. tin, in front .....	8 feet.	33. Flauto Traverso .....	8 feet.
31. Doppel-Flute .....	8 feet.	34. Spitzflöte .....	4 feet.
32. Hohlflöte .....	8 feet.	35. Still Gedact .....	4 feet tone.
		36. Hohlflöte .....	2 feet.

*Pedal, 14 Stops.*

37. Gross Untersatz .....	32 feet tone.	44. Viol di Gamba .....	8 feet.
38. Gross Principal, Eng. tin, in front .....	16 feet.	45. Quint .....	5½ feet.
39. Quintaton .....	16 feet tone.	46. Octave .....	4 feet.
40. Violon .....	16 feet.	47. Rohrflöte .....	4 feet tone.
41. Untersatz .....	16 feet tone.	48. Mixture .....	2 feet.
42. Octaven Principal .....	8 feet.	49. Posaune .....	16 feet.
43. Bourdon .....	8 feet tone.	50. Trompette .....	8 feet.

*Accessory Stops, Movements, &c.*

1. Coupler Choir to Great.	4. Tremulant to Choir.
2. Coupler Echo to Great.	5. Cymbelstern.
3. Coupler Great to Pedal.	6, 7, 8, 9. Four Wind-valves.

## 48. ZERBST.

The new organ in the Church of St. Nicholas, Zerbst, was built by Zuberier and his partner, Geibelin, of Dresden, in 1840. It contains 37 Stops, 2 Manuals, and a Pedal of 9 stops. The details of the instrument are as follow :—

*Great, 15 Stops.*

1. Principal, in front .....	16 feet.	9. Gedact .....	4 feet tone.
2. Quintaton .....	16 feet tone.	10. Gemshorn .....	4 feet.
3. Octave .....	8 feet.	11. Quint .....	2½ feet.
4. Gedact .....	8 feet tone.	12. Quint decima .....	2 feet.
5. Viol di Gamba .....	8 feet.	13. Mixture, VI ranks.	
6. Hohlflöte .....	8 feet.	14. Cornett, IV ranks.	
7. Quint .....	5½ feet.	15. Trompette .....	8 feet.
8. Super-octave .....	4 feet.		

*Choir, 13 Stops.*

16. Bourdon .....	16 feet tone.	23. Flaut Douce .....	4 feet.
17. Principal .....	8 feet.	24. Quint .....	2½ feet.
18. Gedact .....	8 feet tone.	25. Super-octave .....	2 feet.
19. Quintaton .....	8 feet tone.	26. Waldflöte .....	2 feet.
20. Flauto Traverso .....	8 feet.	27. Tertia .....	1½ foot.
21. Octave .....	4 feet.	28. Mixture, IV ranks .....	2½ feet.
22. Salicet .....	4 feet.		

*Pedal, 9 Stops.*

29. Untersatz .....	32 feet tone.	34. Violoncello .....	8 feet.
30. Principal, in front .....	16 feet.	35. Super-octave .....	4 feet.
31. Sub-bass .....	16 feet tone.	36. Posaune .....	16 feet.
32. Violon .....	16 feet.	37. Trompette .....	8 feet.
33. Octave .....	8 feet.		

*Accessory Stops, Movements, &c.*

1. Coupler Great to Pedal.	2, 3, 4. Three Wind-trunk valves.
Six Bellows, 10 feet by 5.	



## 49. LANGENSULZA.

The new organ in the Church of St. Boniface, at Langensulza, contains 34 stops, distributed among 2 Manuals and Pedal in the following manner :—

*Great, 14 Stops.*

1. Bourdon, of wood .....	16 feet tone.	8. Spitzflöte .....	4 feet.
2. Principal, of English tin...	8 feet.	9. Quint .....	2½ feet.
3. Bourdon .....	8 feet tone.	10. Super-octave .....	2 feet.
4. Gemshorn .....	8 feet.	11. Mixture, VI ranks .....	2 feet.
5. Viol di Gamba .....	8 feet.	12. Cymbale, III ranks .....	1 foot.
6. Flauto Major .....	8 feet.	13. Cornett, III ranks.	
7. Octave .....	4 feet.	14. Trompette .....	8 feet.

*Choir, 13 Stops.*

15. Quintaton .....	16 feet tone.	21. Flach-flöte, pear-tree wood	4 feet.
16. Principal, of English tin...	8 feet.	22. Octave, metal .....	2 feet.
17. Gedact, wood .....	8 feet tone.	23. Sesquialtera, II ranks ...	2½ feet.
18. Flauto Traverso, pear-tree wood .....	8 feet.	24. Mixture, IV ranks .....	2 feet.
19. Klein Gedact, metal ...	4 feet tone.	25. Scharf, IV ranks .....	1 foot.
20. Nachthorn .....	4 feet.	26. Cymbal, III ranks .....	½ foot.
		27. Vox Humana .....	8 feet tone.

*Pedal, 7 Stops.*

28. Gross Untersatz, wood ...	32 feet tone.	32. Traversen Bass, wood ...	16 feet.
29. Principal Bass, wood .....	16 feet.	33. Octaven Bass, wood .....	8 feet.
30. Violon Bass, wood .....	16 feet tone.	34. Posaunen Bass, wood ...	16 feet.
31. Sub-bass, wood .....	16 feet tone.		

*Accessory Stops, Movements, &c.*

1. Coupler Choir to Great.	4. Tremulant to Choir.
2. Coupler Great to Pedal.	5, 6, 7. Three Wind-trunk valves.
3. Coupler Choir to Pedal.	8. Cymbelstern.

## 50. MUHLHAUSEN.

The organ in the Church at Muhlhausen has 60 sounding stops, 3 Manuals and Pedal. The following is a list of the stops :—

*Great, 15 Stops.*

1. Bourdon .....	16 feet tone.	9. Super-octave .....	2 feet.
2. Surdun .....	16 feet tone.	10. Waldhorn .....	2 feet.
3. Principal .....	8 feet.	11. Sexte .....	2½ feet.
4. Spitzflöte .....	8 feet.	12. Sifflöte .....	1 foot.
5. Salicional .....	8 feet.	13. Mixture, VII & VIII ranks.	
6. Octave .....	4 feet.	14. Mixture, VI ranks.	
7. Offenflöte .....	4 feet.	15. Zink, reed .....	8 feet.
8. Quint .....	2½ feet.		

*Choir, 14 Stops.*

16. Principal .....	8 feet.	23. Super-octave .....	2 feet.
17. Gedact .....	8 feet tone.	24. Gemshorn .....	2 feet.
18. Quintaton .....	8 feet tone.	25. Tertian .....	2 feet.
19. Hohlflöte .....	4 feet.	26. Sifflöte .....	1 foot.
20. Quintaton .....	4 feet tone.	27. Mixture, VI ranks.	
21. Querflöte .....	4 feet.	28. Dulcian .....	16 feet.
22. Quint .....	2½ feet.	29. Krummhorn .....	8 feet tone.

*Echo, 13 Stops.*

30. Salicional .....	16 feet.	37. Waldflöte .....	2 feet.
31. Principal .....	8 feet.	38. Tertia .....	2 feet.
32. Viol di Gamba .....	8 feet.	39. Cymbale, IV ranks.	
33. Hohlflöte .....	8 feet.	40. Harfen-regal .....	16 feet.
34. Spitzflöte .....	4 feet.	41. Hautbois .....	8 feet.
35. Flöte Douce .....	4 feet.	42. Trompette .....	4 feet.
36. Quint .....	2½ feet.		

*Pedal, 18 Stops.*

43. Sub-bass.....	32 feet tone.	52. Super-super-octave .....	1 foot.
44. Principal .....	16 feet.	53. Mixture, X ranks.	
45. Sub-bass.....	16 feet tone.	54. Posaune .....	32 feet.
46. Octave .....	8 feet.	55. Posaune .....	16 feet.
47. Waldflöte .....	8 feet.	56. Dulcian .....	16 feet.
48. Octave .....	4 feet.	57. Trompette .....	8 feet.
49. Quintaton .....	4 feet tone.	58. Krummhorn .....	8 feet tone.
50. Nachthorn .....	4 feet.	59. Schalmey .....	4 feet tone.
51. Super-octave .....	2 feet.	60. Cornett .....	2 feet.

## 51. MERSEBURG.

The organ in the Cathedral Church, at Merseburg, in Saxony, originally erected in the year 1629, and enlarged in 1698, was considerably augmented and improved by Herr Ladegast, in the year 1853. It now contains 5686 pipes, and the following 81 sounding stops. The compass of the Manuals is from CC to g in alt.; and the Pedal, from CCC to tenor f.

*Hauptwerk, 20 Stops.*

1. Sub-Bourdon, to tenor c key, CCC pipe .....	32 feet tone.	11. Gedact, metal .....	4 feet.
2. Principal, in front, Eng. tin	16 feet tone.	12. Gemshorn, metal.....	4 feet.
3. Bourdon, wood .....	16 feet tone.	13. Quint, metal.....	2½ feet.
4. Principal, in front tin .....	8 feet.	14. Octave, metal .....	2 feet.
5. Doppel Gedact, wood .....	8 feet tone.	15. Doublette, II ranks.....	4 & 2 feet.
6. Gamba, tin .....	8 feet.	16. Mixture, IV ranks.	
7. Hohlflöte, wood .....	8 feet.	17. Scharf, IV ranks.	
8. Gemshorn, tin .....	8 feet.	18. Cornet, III to V ranks.	
9. Quint Gedact, tin .....	5½ feet tone.	19. Fagotto.....	16 feet.
10. Octave, tin .....	4 feet.	20. Trompette .....	8 feet.

*Oberwerk, 16 Stops.*

21. Quintaton, metal .....	16 feet tone.	29. Spitzflöte, wood .....	4 feet.
22. Principal, tin .....	8 feet.	30. Quint, metal.....	2½ feet.
23. Rohrflöte, tin .....	8 feet tone.	31. Waldflöte, metal .....	2 feet.
24. Gamba, tin .....	8 feet.	32. Terz, metal .....	1½ foot.
25. Gedact, tin .....	8 feet tone.	33. Sifflöte, metal .....	1 foot.
26. Flauto Amabile, wood .....	8 feet.	34. Mixture, IV ranks.	
27. Octave, metal .....	4 feet.	35. Schalmey, metal .....	8 feet tone.
28. Rohrflöte, metal .....	4 feet tone.	36. Stahlspiel.	

*Rückpositiv, 11 Stops.*

37. Bourdon, wood .....	16 feet tone.	43. Gedact, metal .....	4 feet tone.
38. Principal, Eng. tin .....	8 feet.	44. Octave, metal .....	2 feet.
39. Flauto Traverso, wood .....	8 feet.	45. Mixture, IV ranks.	
40. Quintaton, metal .....	8 feet tone.	46. Cornett, II to V ranks.	
41. Fugara, tin.....	8 feet.	47. Oboe .....	8 feet.
42. Octave, metal .....	4 feet.		

*Brustwerk, 14 Stops.*

48. Lieblich Gedact, wood .....	16 feet tone.	56. Salicional, metal.....	4 feet.
49. Geigen Principal, tin .....	8 feet.	57. Nasat, metal .....	2½ feet.
50. Lieblich Gedact, wood .....	8 feet tone.	58. Octave, metal .....	2 feet.
51. Salicional .....	8 feet.	59. Cymbale, III ranks.	
52. Flauto Dolce, wood .....	8 feet.	60. Progressiv-Harmonica, II to IV ranks.	
53. Unda Maris, II ranks, tin	8 feet.	61. Æoline .....	16 feet.
54. Octave, tin.....	4 feet.		
55. Zartflöte, wood .....	4 feet.		

*Pedal, 20 Stops.*

62. Untersatz, wood .....	32 feet.	72. Rohr Quint, metal .....	5½ feet.
63. Principal, Eng. tin, in front .....	16 feet.	73. Octave, metal .....	4 feet.
64. Sub-bass .....	16 feet tone.	74. Flöte, wood .....	4 feet.
65. Violin Bass .....	16 feet.	75. Scharf-flöte, metal .....	4 feet.
66. Salicet Bass .....	16 feet.	76. Mixture, IV ranks.	
67. Grossnasat .....	10¾ feet.	77. Cornett, IV ranks.	
68. Principal .....	8 feet.	78. Posaune .....	32 feet.
69. Bass-flöte .....	8 feet.	79. Posaune .....	16 feet.
70. Violoncello .....	8 feet.	80. Dulcian .....	16 feet.
71. Terz, metal .....	6½ feet.	81. Trompette .....	8 feet.

*Accessory Stops, Movements, &c.*

82-84. Three Manual Couplers.	96. Collectivzug to Pedal.
85-87. Three Pedal Couplers.	97. Calcantenruf.
88-91. Four Wind-valves to Manuals.	98. Cymbelstern.
92-94. Three Wind-valves to Pedals.	99. Echozug.
95. Tremulant.	100. Vacant.

## 52. HALLE.

The old organ in the Church of St. Maurice, at Halle, was made by Isaac Compenius, of Brunswick, in 1625. The present instrument was built by Schulze, and contains 40 stops, distributed between 3 Manuals and Pedal. The sound-boards are made to slope upwards from front to back, so that the stops stand in terrace form.

*Great, 14 Stops.*

1. Bourdon to the fiddle g key .....	32 feet tone.	8. Quint .....	5½ feet.
2. Principal .....	16 feet.	9. Octave .....	4 feet.
3. Bourdon .....	16 feet tone.	10. Flöte .....	4 feet.
4. Octave .....	8 feet.	11. Quint and Octave .....	2½ & 2 feet.
5. Gedact .....	8 feet tone.	12. Mixture, V ranks .....	2 feet.
6. Gamba .....	8 feet.	13. Cornett, III ranks.	
7. Hohlflöte .....	8 feet.	14. Trompette .....	8 feet.

*Choir, 10 Stops.*

15. Bourdon .....	16 feet tone.	20. Octave .....	4 feet.
16. Principal .....	8 feet.	21. Hohlflöte .....	4 feet.
17. Gedact .....	8 feet tone.	22. Quint .....	2½ feet.
18. Flöte .....	8 feet.	23. Octave .....	2 feet.
19. Salicional .....	8 feet.	24. Scharf, V ranks .....	2 feet.

*Echo, 8 Stops.*

25. Lieblich Gedact .....	16 feet tone.	29. Harmonica .....	8 feet.
26. Geigen Principal .....	8 feet.	30. Schweizerflöte .....	8 feet.
27. Lieblich Gedact .....	8 feet tone.	31. Geigen Principal .....	4 feet.
28. Flauto Traverso .....	8 feet.	32. Gedact .....	4 feet tone.

*Pedal, 8 Stops.*

33. Principal Bass .....	16 feet.	37. Gedact Bass .....	8 feet tone.
34. Sub-bass .....	16 feet tone.	38. Violoncello .....	8 feet.
35. Violone .....	16 feet.	39. Posaune .....	32 feet.
36. Octave Bass .....	8 feet.	40. Posaune .....	16 feet.

## 53. LOIZ.

The organ in the Marien-Kirche at Loiz, built by Johann Frederic Schulze, has 34 sounding stops, 2 Manuals, and Pedal. The following is a list of its contents:—

*Great, 14 Stops.*

1. Bourdon to the fiddle g key	32 feet tone.	8. Octave	4 feet.
2. Bourdon	16 feet.	9. Gedact-flöte	4 feet.
3. Principal	8 feet.	10. Quint	2½ feet.
4. Gedact	8 feet tone.	11. Octave	2 feet.
5. Gamba	8 feet.	12. Mixture, V ranks	2 feet.
6. Hohlflöte	8 feet.	13. Scharf, III ranks	2 feet.
7. Quint	5½ feet.	14. Trompette	8 feet.

*Choir, 12 Stops.*

15. Lieblich Gedact	16 feet tone.	21. Octave	4 feet.
16. Geigen Principal	8 feet.	22. Flauto Traverso	4 feet.
17. Lieblich Gedact	8 feet tone.	23. Quint	2½ feet.
18. Salicional	8 feet.	24. Octave	2 feet.
19. Flauto Traverso	8 feet.	25. Scharf, III ranks	2 feet.
20. Harmonica	8 feet.	26. Æoline	8 feet.

*Pedal, 8 Stops.*

27. Violone	16 feet.	31. Gedact	8 feet tone.
28. Sub-bass	16 feet tone.	32. Violoncello	8 feet.
29. Gross Quint	10½ feet.	33. Posaune	32 feet.
30. Octaven Bass	8 feet.	34. Posaune	16 feet.

*Compass.*Manuals, CC to f<sup>3</sup> in alt., 54 tones.

Pedal, CCC to tenor d, 28 tones.

## 54. KATSCHER.

The organ in the Catholic Church at Katscher was built by Müller, sen., in 1843. It has 21 sounding stops, distributed among 2 Manuals and Pedal in the following manner:—

*Great, 11 Stops.*

1. Bourdon, maple-wood in the treble, pine in bass	16 feet tone.	5. Portunalfaut	8 feet.
2. Principal, ⅔ tin, in front	8 feet.	6. Principal	4 feet tone.
3. Salicet, maple-wood to tenor c, remaining octave, pine	8 feet.	7. Doppel-rohrflöte, of oak	4 feet tone.
4. Doppel-rohrflöte, oak to middle c <sup>1</sup> , pine for the remaining two octaves	8 feet tone.	8. Gemshorn quint, metal	2½ feet.
		9. Super-octave, metal	2 feet.
		10. Mixture, probe tin, V ranks	
		11. Trompette	8 feet.

*Choir, 6 Stops.*

12. Principal, in front	8 feet.	15. Salicet	4 feet.
13. Salicet, of probe tin in the treble, pine in the bass	8 feet.	16. Portunal, of maple and pear-tree wood to tenor c; the last octave of pine	4 feet.
14. Flaut major, oak in the treble, pine in the bass	8 feet tone.	17. Violini, 14 loth. probe tin	2 feet.

*Pedal, 4 Stops.*

18. Violon, of pine-wood	16 feet.	20. Violon, of pine wood	8 feet.
19. Sub-bass, of pine-wood	16 feet tone.	21. Posaune, pear-tree-wood	16 feet.

*Accessory Stops, &c.*

1. Wind to Great.
2. Wind to Choir.
3. Wind to Pedal.

*Compass, &c.*

Manuals, CC to d<sup>8</sup> in alt.  
 Pedal, CCC to tenor d.  
 3 Bellows, 9 feet by 4½.

## 55. ERDMANNSDORF.

The organ in the Church at Erdmannsdorf was built by Buckow, in 1840 ; and has 19 sounding stops, of which the following is a list :—

*Great, 9 Stops.*

- |                                    |               |                                  |         |
|------------------------------------|---------------|----------------------------------|---------|
| 1. Bourdon, wood.....              | 16 feet tone. | 6. Nazard (conical) 12 loth. tin | 3 feet. |
| 2. Principal, of Eng. tin in front | 8 feet.       | 7. Super-octave, 14 loth. tin    | 2 feet. |
| 3. Gemshorn, 14 loth. tin ...      | 8 feet.       | 8. Cornetti, 12 loth. tin, of    |         |
| 4. Principal octave, Eng. tin in   |               | conical pipes, III ranks         | 2 feet. |
| front .....                        | 4 feet.       | 9. Progressio, 14 loth. tin, III |         |
| 5. Gemshorn, 14 loth. tin ...      | 4 feet.       | and IV ranks .....               | 2 feet. |

*Choir, 6 Stops.*

- |                                   |         |                                   |         |
|-----------------------------------|---------|-----------------------------------|---------|
| 10. Salicional, Eng. tin.....     | 8 feet. | 14. Flaut d'amour, 10 loth. metal | 4 feet. |
| 11. Viola di Gamba .....          | 8 feet. | 15. Flautino, 12 loth. probe tin, |         |
| 12. Flauto Douce, 10 loth. metal, |         | conical pipes .....               | 2 feet. |
| lower octaves of wood...          | 8 feet. | 16. Slide for a reed stop of ...  | 8 feet. |
| 13. Principal, Eng. tin .....     | 4 feet. |                                   |         |

*Pedal, 4 Stops.*

- |                          |               |                                  |          |
|--------------------------|---------------|----------------------------------|----------|
| 17. Violon, wood .....   | 16 feet.      | 19. Violoncello, the upper notes |          |
| 18. Sub-bass, wood ..... | 16 feet tone. | of probe tin .....               | 8 feet.  |
|                          |               | 20. Posaune .....                | 16 feet. |

*Accessory Stops, &c.*

1. Coupler, Choir to Great. | 2. Coupler, Great to Pedal. | 3, 4, 5. Three Wind-trunk valves.

*Compass, &c.*

Manuals, CC to f<sup>8</sup> in alt.

Pedal, CCC to tenor d.

## 56. KRUMOLS.

The organ in the new Catholic Church at Krumols has 22 sounding stops, of which the following is a list :—

*Great, 10 Stops.*

- |                                   |               |                                   |          |
|-----------------------------------|---------------|-----------------------------------|----------|
| 1. Bourdon, metal treble, wood    |               | 5. Octave, 12 loth. Eng. tin      | 4 feet.  |
| bass .....                        | 16 feet tone. | 6. Gemshorn, 12 loth. Eng. tin    | 4 feet.  |
| 2. Principal, Eng. tin, polished, |               | 7. Quint, 12 loth. Eng. tin       | 2½ feet. |
| and in front .....                | 8 feet.       | 8. Super-octave, 12 loth. Eng.    |          |
| 3. Gemshorn, 14 loth. Eng. tin    | 8 feet.       | tin .....                         | 2 feet.  |
| 4. Hohlflöte, the upper 3½ oc-    |               | 9. Progressio, 12 loth. Eng. tin, |          |
| tave in 10 loth. metal, the       |               | III, IV, and V ranks ...          | 2 feet.  |
| remainder in wood .....           | 8 feet.       | 10. Trompette.....                | 8 feet.  |

*Choir, 8 Stops.*

- |                                   |         |                                   |          |
|-----------------------------------|---------|-----------------------------------|----------|
| 11. Viola di Gamba, 15 loth.      |         | 14. Flaut d'amour, 10 loth. metal | 4 feet.  |
| Eng. tin .....                    | 8 feet. | 15. Quinta dulcis .....           | 2½ feet. |
| 12. Flaut Douce, 10 loth. metal   |         | 16. Flautino, 12 loth. Eng. tin,  | 2 feet.  |
| to tenor c, last octave           |         | 17. Flauto Piccolo, 12 loth.      |          |
| wood .....                        | 8 feet. | Eng. tin.....                     | 1 foot.  |
| 13. Principal, 14 loth. Eng. tin, |         | 18. Cornetti, 12 loth. Eng. tin,  |          |
| in front .....                    | 4 feet. | III ranks.                        |          |

*Pedal, 4 Stops.*

19. Principal, wood.....	16 feet.	21. Octave, 12 loth tin .....	8 feet.
20. Sub-bass, wood.....	16 feet tone.	22. Posaune.....	16 feet.

*Accessory Stops, Movements, &c.*

1. Coupler, Choir to Great.	3, 4, 5. Three Wind-trunk valves.
2. Coupler, Great to Pedal.	

*Compass.*

Manuals, CC to f<sup>3</sup> in alt. | Pedal, CCC to tenor d. | Three Bellows, 10 feet long.

## 57. HALBERSTADT.

The organ in the great church at Halberstadt was almost completely re-built by J. F. Schulze, in the year 1838. It has 65 sounding-stops, and about 4,250 pipes. There are 4 Manuals and a Pedal organ of 18 Stops. The specification of the stops is as follows :—

*First Manual, 15 Stops.*

1. Principal .....	16 feet.	9. Octave .....	2 feet.
2. Octave .....	8 feet.	10. Mixture, VI ranks . . .	2 feet.
3. Gemshorn .....	8 feet.	11. Scharf, IV ranks .....	2 feet.
4. Gedact .....	8 feet tone.	12. Cornett, IV ranks.	
5. Nasat .....	5½ feet.	13. Contra-bourdon . . .	32 feet tone.
6. Octave .....	4 feet.	14. Trompette.....	16 feet.
7. Gedact .....	4 feet tone.	15. Trompette .....	8 feet.
8. Quint .....	2½ feet.		

*Second Manual, 13 Stops.*

16. Gedact .....	16 feet tone.	23. Flute Douce ..	4 feet.
17. Quintaton .....	8 feet.	24. Quint .....	2½ feet.
18. Principal .....	8 feet.	25. Octave .....	2 feet.
19. Viola di Gamba . . .	8 feet.	26. Mixture, V ranks .....	2 feet.
20. Hohlflöte .....	8 feet.	27. Cymbale, III ranks . .	1 foot.
21. Gedact .....	8 feet tone.	28. Hautbois .....	8 feet.
22. Octave .....	4 feet.		

*Third Manual, 11 Stops.*

29. Bourdon .....	16 feet tone.	35. Nasat.....	2½ feet.
30. Principal .....	8 feet.	36. Octave .....	2 feet.
31. Salicional .....	8 feet.	37. Mixture, IV ranks.	
32. Gedact .....	8 feet tone.	38. Cornett, III ranks.	
33. Octave .....	4 feet.	39. Vox humana.. .	8 feet tone.
34. Spitzflöte .....	4 feet.		

*Fourth Manual, 8 Stops.*

40. Lieblich Gedact .....	16 feet tone.	44. Lieblich Gedact .....	8 feet tone.
41. Terpodion .....	8 feet.	45. Principal .....	4 feet.
42. Harmonica .....	8 feet.	46. Flauto Traverso .....	4 feet.
43. Flauto Traverso .....	8 feet.	47. Phyzharmonica.....	8 feet.

*Pedal, 18 Stops.*

48. Untersatz .....	32 feet tone.	57. Tertia .....	6½ feet.
49. Principal.....	16 feet.	58. Nasat.....	5½ feet.
50. Violine .....	16 feet.	59. Octave .....	4 feet.
51. Sub-bass.....	16 feet tone.	60. Mixtur, IV ranks.....	4 feet.
52. Sub-bass .....	16 feet.	61. Cornett, V ranks.	
53. Grossnasat .....	10½ feet.	62. Posaune.....	32 feet.
54. Octave .....	8 feet.	63. Posaune.....	16 feet.
55. Violoncello. ....	8 feet.	64. Trompette.....	8 feet.
56. Gedact .....	8 feet tone.	65. Trompette.....	4 feet.

## 58. HIRSCHBERG.

The large organ in Christ Church, Hirschberg, has 62 sounding stops, 4 Manuals, Pedal of 16 stops, and 3,844 pipes. The stops are disposed in the following manner :—

*First Manual, 16 Stops.*

1. Principal, $\frac{3}{4}$ tin .....	16 feet.	9. Quint, tin .....	2 $\frac{3}{4}$ feet.
2. Quintaton, metal .....	16 feet tone.	10. Vigesima secunda, tin.....	2 feet.
3. Principal, Eng. tin .....	8 feet.	11. Rauschquint, II ranks, tin	1 $\frac{1}{2}$ foot.
4. Gemshorn, metal .....	8 feet.	12. Mixture, V ranks, tin .....	2 feet.
5. Hohlflöte, wood .....	8 feet.	13. Scharf, IV ranks, tin .....	1 $\frac{1}{2}$ foot.
6. Nazard, tin.....	5 $\frac{1}{2}$ feet.	14. Cymbale, III ranks, tin ..	1 foot.
7. Super-octave, tin .....	4 feet.	15. Tromba, $\frac{3}{4}$ tin .....	16 feet.
8. Flute Douce, wood .....	4 feet.	16. Trompette, $\frac{3}{4}$ tin .....	8 feet.

*Second Manual, 13 Stops.*

17. Bourdon, oak-wood .....	16 feet tone.	24. Super-octave, tin .....	2 feet.
18. Principal, in front, tin .....	8 feet.	25. Terz, tin .....	1 $\frac{3}{4}$ foot.
19. Gedact, metal .....	8 feet tone.	26. Flageolet, tin .....	1 foot.
20. Quintaton, metal .....	8 feet tone.	27. Mixture, VI ranks, tin. ....	2 feet.
21. Octave, tin.....	4 feet.	28. Cymbale, III ranks, tin ..	1 $\frac{1}{2}$ foot.
22. Gemshorn, tin .....	4 feet.	29. Vox humana, $\frac{3}{4}$ tin .....	8 feet tone.
23. Quint, tin .....	2 $\frac{3}{4}$ feet.		

*Third Manual, 10 Stops.*

30. Principal, Eng. tin .....	8 feet.	35. Quint.....	2 $\frac{3}{4}$ feet.
31. Fugara, pine and maple-wood	8 feet.	36. Super-octave.....	2 feet.
32. Gedact, oak-wood .....	8 feet tone.	37. Mixture, IV ranks.	
33. Octave .....	4 feet.	38. Sesquialtera, II ranks.	
34. Rohrflöte, metal .....	4 feet tone.	39. Schalomo, tin .....	8 feet tone.

*Fourth Manual, 7 Stops.*

40. Prestant, tin .....	8 feet.	44. Super-octave, tin .....	2 feet.
41. Flaut Douce, wood .....	8 feet.	45. Cornett, II ranks, tin .....	1 $\frac{1}{2}$ foot.
42. Octave, tin.....	4 feet.	46. { Oboe im descant, wood }	8 feet.
43. Flaut Traversière, wood ...	4 feet.	{ Fagotto im bass, wood }	

*Pedal, 16 Stops.*

47. Untersatz, wood .....	32 feet tone.	55. Super-octave, tin .....	4 feet.
48. Principal, Eng. tin .....	16 feet.	56. Nachthorn, tin .....	2 feet.
49. Violon.....	16 feet.	57. Mixture, V ranks, tin .....	2 $\frac{3}{4}$ feet.
50. Quintaton .....	16 feet tone.	58. Rauschquint, II ranks, tin	
51. Sub-bass .....	16 feet.	59. Contra-posaune, wood .....	32 feet.
52. Octave, wood and metal ...	8 feet.	60. Posaune, wood.....	16 feet.
53. Violoncello.....	8 feet.	61. Trompette, $\frac{3}{4}$ tin .....	8 feet.
54. Quint, metal .....	5 $\frac{1}{2}$ feet.	62. Clarino, $\frac{3}{4}$ tin .....	4 feet.

*Accessory Stops, &c.*

1, 2, 3, 4. Couplers for all 4 Manuals.	6 to 12. Seven Wind-trunk valves.
5. Coupler, Great to Pedal.	13. Tremulant.

## 59. NAUMBERG.

The organ in the Church of St. Wenzel, in Naumberg, contains 52 sounding stops, 3 Manuals, and a Pedal of 12 stops; 3,000 pipes, and 7 large pairs of bellows. The oldest parts of the instrument date as far back as 1613, to which

additions were made in 1734 (by Hildebrand, of Leipzig), in 1737 and in 1810. The present contents of the organ are as follow :—

*Great, 15 Stops.*

1. Principal .....	16 feet.	9. Quint .....	3 feet.
2. Quintaton .....	16 feet tone.	10. Octave .....	2 feet.
3. Octave .....	8 feet.	11. Weipfeife .....	2 feet.
4. Spitzflöte .....	8 feet.	12. Mixture, V ranks.	
5. Gedact .....	8 feet tone.	13. Cornett, V ranks.	
6. Prestant .....	4 feet.	14. Bombard .....	16 feet.
7. Spitzflöte .....	4 feet.	15. Trompette ..	8 feet.
8. Gedact .....	4 feet tone.		

*Echo, 14 Stops.*

16. Bourdon .....	16 feet tone.	23. Gemshorn .....	4 feet.
17. Principal .....	8 feet.	24. Gedact .....	4 feet.
18. Principal Undamar.....	8 feet.	25. Quint .....	3 feet.
19. Hohlflöte .....	8 feet.	26. Octave .....	2 feet.
20. Flauto Traverso.....	8 feet.	27. Waldflöte .....	2 feet.
21. Clav. Æoline .....	8 feet.	28. Sifflöte .....	1 foot.
22. Prestant .....	4 feet.	29. Mixture, V ranks.	

*Choir, 11 Stops.*

30. Tibia major .....	16 feet tone.	36. Quintaton .....	8 feet tone.
31. Principal .....	8 feet.	37. Prestant .....	4 feet.
32. Gemshorn .....	8 feet.	38. Rohrflöte .....	4 feet tone.
33. Viola di Gamba .....	8 feet.	39. Octave .....	2 feet.
34. Fugara .....	8 feet.	40. Mixture, V ranks .....	3 feet.
35. Rohrflöte .....	8 feet tone.		

*Pedal, 12 Stops.*

41. Principal .....	16 feet.	47. Octave .....	4 feet.
42. Violon .....	16 feet.	48. Octave .....	2 feet.
43. Sub-bass .....	16 feet tone.	49. Mixture, V ranks ..	3½ feet.
44. Octave Bass .....	8 feet.	50. Posaune .....	32 feet.
45. Violon .....	8 feet.	51. Posaune .....	16 feet.
46. Quint .....	6 feet.	52. Trompette ..	8 feet.

## 60. TREBNITZ.

The organ in the Catholic Church at Trebnitz has 33 sounding stops, which are distributed as follows :—

*Great, 13 Stops.*

1. Bourdon, wood .....	16 feet.	7. Gemshorn Quint, metal ...	5½ feet.
2. Principal, Eng. tin, in front	8 feet.	8. Octave, English tin in front .....	4 feet.
3. Salicet, ⅔ tin to tenor f, wood bass.....	8 feet.	9. Doppel-rohrflöte, maple-wood.....	4 feet.
4. Gemshorn, metal, except the bottom octave, which is of wood .....	8 feet.	10. Quint, metal .....	2½ feet.
5. Quintaton, half tin .....	8 feet tone.	11. Super-octave, metal .....	2 feet.
6. Rohrflöte, metal, except the 8 feet octave, which is of wood .....	8 feet.	12. Mixture, V ranks.	
		13. Trompette, ⅔ tin .....	8 feet.

*Choir, 9 Stops.*

14. Principal, Eng. tin .....	8 feet.	18. Salicet, tin .....	4 feet.
15. Salicet, ⅔ the lowest octave of wood .....	8 feet.	19. Portunal .....	4 feet.
16. Portunalflöte, wood .....	8 feet.	20. Gemshorn Quint, ⅔ tin ...	3 feet.
17. Flaut major, wood .....	8 feet tone.	21. Super-octave, metal .....	2 feet.
		22. Cymbale, III ranks.	



*Pedal, 11 Stops.*

23. Principal, wood .....	16 feet.	29. Salicet, wood .....	8 feet.
24. Gamba, wood .....	16 feet.	30. Doppelflaut, wood .....	8 feet tone.
25. Salicet, wood .....	16 feet.	31. Super-octave .....	4 feet.
26. Sub-bass, wood .....	16 feet tone.	32. Posaune, wood.....	16 feet.
27. Quinten Bass, wood .....	10 $\frac{3}{4}$ feet.	33. Trompette, $\frac{3}{4}$ tin .....	8 feet.
28. Octaven Bass, wood .....	8 feet.		

*Accessory Stops, &c.*

1. Coupler, Choir to Great.	3, 4. Two Wind-trunk valves.
2. Coupler, Great to Pedal.	Four Bellows, 9 feet by 4 $\frac{1}{2}$ .

*Compass.*

Manuals, CC to f <sup>3</sup> in alt.	Pedal, CCC to tenor d.
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## 61. SALZWEDEL.

The organ in the Church of St. Catharine, in the new town of Salzwedel, has 42 sounding stops, and was built by Frederick Turley, Treuenbitzen, in 1838.

*Great, 15 Stops.*

1. Principal, in front .....	16 feet.	9. Quint .....	2 $\frac{3}{4}$ feet.
2. Octave .....	8 feet.	10. Super-octave .....	2 feet.
3. Spitzflöte .....	8 feet.	11. Cornett, IV ranks, 6, 4, 3 $\frac{1}{2}$ , and 2 feet.	
4. Gedact .....	8 feet tone.	12. Scharf, IV ranks, 2, 1 $\frac{1}{2}$ , 1 $\frac{1}{4}$ , and 1 foot.	
5. Quint .....	5 $\frac{1}{2}$ feet.	13. Cymbale, III ranks, 1, $\frac{1}{2}$ , and $\frac{1}{4}$ foot.	
6. Super-octave .....	4 feet.	14. Trompette .....	16 feet.
7. Rohrflöte .....	4 feet tone.	15. Trompette .....	8 feet.
8. Lieblich Gedact .....	4 feet tone.		

*Choir, 13 Stops.*

16. Bourdon .....	16 feet tone.	23. Gemshorn .....	4 feet.
17. Principal, in front .....	8 feet.	24. Nasat .....	3 feet.
18. Viola di Gamba .....	8 feet.	25. Super-octave .....	2 feet.
19. Salicional .....	8 feet.	26. Mixture, IV ranks, 2, 1 $\frac{1}{2}$ , 1, and $\frac{1}{2}$ feet.	
20. Quintaton .....	8 feet tone.	27. Foline .....	16 feet.
21. Lieblich Gedact .....	8 feet tone.	28. Hautbois, to c <sup>1</sup> .....	8 feet.
22. Octave .....	4 feet.		

*Pedal, 14 Stops.*

29. Principal, in front .....	16 feet.	36. Nasat .....	6 feet.
30. Violon .....	16 feet.	37. Super-octave .....	4 feet.
31. Sub-bass .....	16 feet tone.	38. Compensation Mixture, V ranks.	
32. Grossnasat .....	12 feet.	39. Posaune .....	16 feet.
33. Octave .....	8 feet.	40. Dulcian .....	16 feet.
34. Gedact .....	8 feet tone.	41. Trompette .....	8 feet.
35. Tertia .....	6 $\frac{1}{2}$ feet.	42. Clarion .....	4 feet.

*Accessory Stops, &c.*

1. Coupler, Choir to Great.	3, 4, 5. Three Wind-trunk valves.
2. Tremulant.	Six Bellows.

## 62. WEISSENFELS.

The organ in the Lock Church at Weissenfels was built by Schulze. It has 19 stops, 2 Manuals, and Pedal. The following is a list of its contents:—

*Great, 10 Stops.*

1. Bourdon .....	16 feet tone.	6. Octave .....	4 feet.
2. Principal .....	8 feet.	7. Quint .....	2 $\frac{3}{4}$ feet.
3. Viola di Gamba .....	8 feet.	8. Octave .....	2 feet.
4. Hohlflöte .....	8 feet.	9. Mixture, V ranks.....	2 feet.
5. Gedact .....	8 feet tone.	10. Scharf, III ranks....	2 feet.

*Choir, 5 Stops.*

11. Lieblich Gedact .....	16 feet tone.	14. Lieblich Gedact .....	8 feet tone.
12. Salicional .....	8 feet.	15. Principal .....	4 feet.
13. Flauto Traverso .....	8 feet.		

*Pedal, 4 Stops.*

16. Gedact .....	16 feet tone.	18. Gedact .....	8 feet tone.
17. Principal .....	8 feet.	19. Posaune .....	16 feet.

*Accessory Stops.*

1. Coupler, Choir to Great.	2. Coupler, Great to Pedal.
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*Compass.*

Manuals, CC to f <sup>3</sup> in alt.	Pedal, CCC to tenor d.
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## 63. CELLE.

The organ in the Ludwigs Church at Celle has 15 stops, 2 Manuals, and Pedal. The following are the names of the stops :—

*Great, 7 Stops.*

1. Bourdon, metal to middle c <sup>1</sup> , remaining 2 octaves wood	16 feet tone.	4. Octave, 4 loth. metal .....	4 feet.
2. Principal, 12 loth. tin, in front	8 feet.	5. Gemshorn, 4 loth. metal ...	4 feet.
3. Rohrflöte, metal treble, wood bass .....	8 feet tone.	6. Octave, 4 loth. metal ...	2 feet.
		7. Mixture, III ranks.	

*Choir, 4 Stops.*

8. Salicional .....	8 feet.	10. Rohrflöte, 4 loth. metal ...	4 feet tone.
9. Gedact, metal treble, wood bass .....	8 feet tone.	11. Waldflöte, 4 loth. metal ...	2 feet.

*Pedal, 4 Stops.*

12. Sub-bass, wood. ....	16 feet tone.	14. Octave, 4 loth. metal .....	4 feet.
13. Principal, 12 loth. metal ..	8 feet.	15. Posaune .....	16 feet.

## 64. VERDEN.

The organ in the pretty little Cathedral at Verden is a particularly fine instrument, built by Schulze, containing 34 sounding stops, of which the following is a list :—

*Great, 14 Stops.*

1. Bourdon.....	32 feet tone.	8. Octave .....	4 feet.
2. Bourdon.....	16 feet tone.	9. Flöte.....	4 feet.
3. Principal .....	8 feet.	10. Ilohlflöte .....	4 feet.
4. Gedact .....	8 feet tone.	11. Quint and Octave .....	2½ & 2 feet.
5. Gamba .....	8 feet.	12. Mixture, V ranks .....	2 feet.
6. Ilohlflöte .....	8 feet.	13. Cymbale, III ranks .....	2 feet.
7. Quint .....	5½ feet.	14. Cornett, III ranks .....	4 feet.

*Choir, 11 Stops.*

15. Lieblich Gedact .....	16 feet tone.	21. Geigen Principal .....	4 feet.
16. Lieblich Gedact .....	8 feet tone.	22. Flauto Traverso .....	4 feet.
17. Geigen Principal .....	8 feet.	23. Quint and Octave .....	2½ & 2 feet.
18. Salicional .....	8 feet.	24. Scharf, III ranks.	
19. Flauto Traverso .....	8 feet.	25. Æoline .....	8 feet.
20. Harmonica .....	8 feet.		

*Pedal, 9 Stops.*

26. Principal Bass .....	16 feet.	31. Gedact-bass .....	8 feet tone.
27. Sub-bass.....	16 feet tone.	32. Violoncello .....	8 feet.
28. Violon .....	16 feet.	33. Posaune .....	32 feet.
29. Quinten Bass.....	10 $\frac{1}{2}$ feet tone.	34. Posaune .....	16 feet.
30. Octave Bass .....	8 feet.		

*Compass.*

Manuals, CC to f<sup>3</sup> in alt, 54 notes. | Pedal, CCC to tenor d, 27 notes.

## 65. BREMEN.

The organ in the Cathedral Church at Bremen was built by Schulze, and contains 59 stops, 16 of which are devoted to the Pedal. It presents the peculiarities of having a stop of 32-feet tone on the Choir as well as on the Great Manual, and of having a Great stopped Quint of 21 $\frac{1}{3}$  feet on the Pedal. The following is the specification of the above-named instrument :—

*Great, 16 Stops.*

1. Bourdon, to tenor c key ...	32 feet tone.	9. Octave .....	4 feet.
2. Principal .....	16 feet.	10. Flöte .....	4 feet.
3. Bourdon.....	16 feet.	11. Quint and Octave .....	2 $\frac{2}{3}$ & 2 feet.
4. Principal .....	8 feet.	12. Mixture, V ranks.....	2 feet.
5. Gedact .....	8 feet tone.	13. Cymbale, III ranks .....	2 feet.
6. Gamba .....	8 feet.	14. Cornett, III ranks .....	4 feet.
7. Hohlflöte .....	8 feet.	15. Trompette.....	16 feet.
8. Quint .....	5 $\frac{1}{3}$ feet.	16. Trompette .....	8 feet.

*Choir, 13 Stops.*

17. Bourdon, to tenor c key ...	32 feet tone.	24. Flöte .....	4 feet.
18. Bourdon .....	16 feet tone.	25. Spitzflöte .....	4 feet.
19. Salicional .....	8 feet.	26. Quint and Octave .....	2 $\frac{2}{3}$ & 2 feet.
20. Gedact .....	8 feet tone.	27. Mixture, V ranks.....	2 feet.
21. Flöte .....	8 feet.	28. Scharf, III ranks .....	2 feet.
22. Principal .....	8 feet.	29. Phyzharmonica .....	8 feet.
23. Octave .....	4 feet.		

*Swell, 14 Stops.*

30. Lieblich Gedact .....	16 feet tone.	37. Geigen Principal .....	4 feet.
31. Geigen Principal .....	8 feet.	38. Flauto Traverso .....	4 feet.
32. Harmonica .....	8 feet.	39. Zart-flöte .....	4 feet.
33. Lieblich Gedact .....	8 feet tone.	40. Quint. ....	2 $\frac{2}{3}$ feet.
34. Terpodion .....	8 feet.	41. Octave .....	2 feet.
35. Gedact-flöte .....	8 feet tone.	42. Mixture, III ranks .....	2 feet.
36. Flauto Traverso .....	8 feet.	43. Æoline .....	8 feet.

*Pedal, 16 Stops.*

44. Principal Bass .....	32 feet.	52. Gedact Bass.....	8 feet tone.
45. Gross Quinten Bass .....	21 $\frac{1}{3}$ feet tone.	53. Flöten Bass .....	8 feet.
46. Principal Bass .....	16 feet.	54. Violoncello .....	8 feet.
47. Major Bass .....	16 feet.	55. Octave .....	4 feet.
48. Violon .....	16 feet.	56. Posaune .....	32 feet.
49. Sub-bass .....	16 feet tone.	57. Reim .....	16 feet.
50. Quinten Bass .....	10 $\frac{1}{2}$ feet tone.	58. Posaune .....	16 feet.
51. Octaven Bass .....	8 feet.	59. Trompette .....	8 feet.

## HAMBURG.

The ancient city of Hamburg was long celebrated for the number (namely, 5) and excellence of its 32-feet organs, two of which, however, perished in the great

conflagration of 1842. Of the 3 which remain that in the present church of St. Michael is the best known, and is also the most modern one.

#### 66. CHURCH AND ORGAN OF ST. MICHAEL'S, HAMBURG.

The old church of St. Michael being struck by lightning and burnt down, the present edifice was commenced in 1750, from the designs of Mr. Ernest George Sonnin, and opened for service in 1762. The height of the church inside is 93 feet, its length 249 feet, and its breadth 178 feet. The organ stands at the west end, and contains the following stops :—

##### *Great Organ, 18 Stops.*

1. Principal, tin	16 feet.	10. Nasat, metal	2 $\frac{3}{4}$ feet.
2. Quintadena, wood and metal	16 feet tone.	11. Octave, tin	2 feet.
3. Octave, tin	8 feet.	12. Rauschpfeife, II ranks, tin	2 $\frac{3}{4}$ feet.
4. Gedact, wood and metal	8 feet tone.	13. Mixture, VIII ranks, tin	2 feet.
5. Gamba, tin	8 feet.	14. Scharf, V ranks, tin	1 $\frac{1}{2}$ foot.
6. Gemshorn, metal	8 feet.	15. Cornet, V ranks, tin	8 feet.
7. Quint, tin	5 $\frac{1}{2}$ feet.	16. Trompette, tin	16 feet.
8. Octave, tin	4 feet.	17. Trompette, tin	8 feet.
9. Gemshorn, metal	4 feet.	18. Oboe, from tenor f, tin	8 feet.

##### *Choir Organ, 16 Stops.*

19. Rohrflöte, wood and metal	16 feet tone.	27. Nasat, tin	2 $\frac{3}{4}$ feet.
20. Principal, tin	8 feet.	28. Octave, tin	2 feet.
21. Principal, to fiddle g	8 feet.	29. Flach-flöte, metal	2 feet.
22. Rohrflöte, metal	8 feet tone.	30. Quint, tin	1 $\frac{1}{2}$ foot.
23. Flauto Traverso, wood	8 feet.	31. Rauschpfeife, II ranks, tin	2 $\frac{3}{4}$ feet.
24. Klein-Gedact, wood	8 feet tone.	32. Cymbale, V ranks, tin	8 feet.
25. Octave, tin	4 feet.	33. Chalumeau, tin	8 feet.
26. Rohrflöte, metal	4 feet tone.	34. Trompette, tin	4 feet.

Upper-work and Swell on the same Manual, 20 stops :—

##### *Upper-work, 16 Stops.*

35. Bourdon, wood and metal	8 feet tone.	43. Octave, tin	2 feet.
36. Principal, tin	8 feet.	44. Rauschpfeife, II ranks, tin	2 $\frac{3}{4}$ feet.
37. Quintadena, wood and metal	8 feet tone.	45. Cymbale, V ranks, tin	1 $\frac{1}{2}$ foot.
38. Spitzflöte, metal	8 feet.	46. Echo cornett, to fiddle g, V ranks	8 feet.
39. Unda Maris, to fiddle g	8 feet.	47. Trompette	8 feet.
40. Octave, tin	4 feet.	48. Vox humana, tin	8 feet.
41. Spitzflöte, metal	4 feet.	49. Cremona to tenor f	8 feet.
42. Quint, tin	2 $\frac{3}{4}$ feet.	50. Glockenspiel to tenor f	8 feet.

##### *Swell, 4 Stops.*

51. Octave	8 feet.	53. Cornett, V ranks in the treble, II in bass.	
52. Octave	4 feet.	54. Trompette	8 feet.

##### *Pedal, 16 Stops.*

55. Principal, tin	32 feet.	63. Gedact, tin	8 feet tone.
56. Sub-bass, wood	32 feet tone.	64. Octave, tin	4 feet.
57. Principal, tin	16 feet.	65. Mixture, tin, X ranks.	
58. Sub-bass, open, wood	16 feet.	66. Posaune, tin	32 feet.
59. Sub-bass, stopped, wood	16 feet tone.	67. Posaune, tin	16 feet.
60. Violone, wood	16 feet.	68. Fagotto	16 feet.
61. Rohr-quint, metal	10 $\frac{3}{4}$ feet tone.	69. Trompette, tin	8 feet.
62. Octave, tin	8 feet.	70. Clarion, tin	4 feet.

*Accessory Stops.*

- |                               |  |                         |
|-------------------------------|--|-------------------------|
| 1. Tremulant to Great Manual. |  | 4. Wind to Choir Organ. |
| 2. Cymbalstar.                |  | 5. Wind to Upper-work.  |
| 3. Wind to Great Organ.       |  | 6. Wind to Pedal Organ. |

The case presents a handsome front, 60 feet in height and 60 feet in width. The 32-foot pipe stands in the centre by itself, in an immense pilaster; the remainder of the 32-foot stop in two great concave compartments, one on each side, and every pipe is supported below by a base, and finished off above with a Corinthian capital, gilded, the pipes themselves forming the shafts, being of their natural bright silvery colour.

The organ is finely laid out inside, in four stories, to each of which free access is obtained by wide staircases with hand-rails. Passage-boards occur in abundance, and any pipe in this immense instrument can be got at without disturbing a second one.

There are no "conveyanced off" pipes, except those which appear in the front of the case, the site of the organ being so favourable as to allow of the sound-boards being made of ample dimensions.

Those of the Great organ are made "in halves," each half measuring from  $8\frac{1}{4}$  to 9 feet in length, and the pipes of every stop stand in a single row, even to the 16-foot double trumpet.

The CCCC pipe in the middle of the front is made of pure tin, is 35 feet 6 inches in length, weighs upwards of 960 pounds, is 20 inches in diameter, and the body was cast in one sheet.

The diameter of the 32-foot Posaune is 16 inches at the bell, and of the 16-foot Posaune, 10 inches. A light sieve of metal wire, with wide meshes, placed over the bell of each of the large reed pipes, keeps out the birds—a most necessary and excellent precaution. The tops of a great portion of the large metal pipes also have an addition that is by no means common. This consists of a sliding cylinder, introduced to aid the process of tuning, which is drawn up or pressed down according as the pitch of the pipe may require flattening or sharpening. The top of the pipe is further covered with leather outside to prevent the cylinder slipping. None of the pipes are pressed out of shape, none present bent or ragged tops, as is too frequently the case in English organs, but all preserve their symmetry of outline.

Silbermann, the celebrated organ-builder, of Dresden, was invited to construct the new St. Michael's organ, which invitation he accepted; but, dying shortly afterwards, the execution of the work was entrusted to his principal workman, Hildebrand. This was about the year 1768. T. Matheson, the celebrated composer and theorist, left, by will, £4,000 towards paying for this organ, which sum, however, did not nearly equal the amount expended in its fabrication.

## 67. ST. CATHERINE'S CHURCH, HAMBURG.

An organ stood in this church as early as the year 1501. A portion of the present instrument was made in 1540, including a Principal, on the Pedal, of 26 feet. This latter was removed, on account of its damaged state and feeble tone, in 1670, after being in use at least 130 years, and the present stop of 32 feet, of the best English tin, polished, substituted. Sebastian Bach, when a youth, made frequent journeys to Hamburg to hear the then organist of St. Catherine's Church, John Adam Reinkin, who was at that time very famous; and he remembered to his latest years, with lively satisfaction, this organ, with its magnificent 32-foot Pedal, on which, in after life, he sometimes publicly performed. In 1867 an organ committee was formed, consisting of four gentlemen connected with the

administration of the Church, and the present organist, Herr H. Dagenhardt, who entered into a contract with the organ-builder, Mr. Heinr. Wolfsteller, junr., for the cleansing, improvement, and enlarging of the instrument, according to a design prepared by the organist. The organ now contains the following stops :—

*Hauptwerk.*

1. Principal .....	16 feet.	7. Octave .....	4 feet.
2. Quintaton .....	16 feet tone.	8. Octave .....	2 feet.
3. Principal .....	8 feet.	9. Rauschpfeife, II ranks.	
4. Octave .....	8 feet.	10. Mixture, VI to X ranks.	
5. Salicet .....	8 feet.	11. Trompette .....	16 feet.
6. Hohlflöte .....	8 feet.	12. Trompette .....	8 feet.

*Oberwerk.*

13. Bourdon .....	16 feet tone.	19. Waldflöte .....	2 feet.
14. Principal .....	8 feet.	20. Scharf, III to V ranks.	
15. Gedact .....	8 feet tone.	21. Trompette .....	8 feet.
16. Rohrflöte .....	8 feet tone.	22. Trompette .....	4 feet.
17. Octave .....	4 feet.	23. Vox humana .....	8 feet.
18. Flöte .....	4 feet.	24. Glockenspiel.	

*Rückpositiv.*

25. Bourdon .....	16 feet tone.	31. Nasat .....	3 feet.
26. Principal .....	8 feet.	32. Octave .....	2 feet.
27. Quintaton .....	8 feet tone.	33. Sesquialtera, II ranks.	
28. Gedact .....	8 feet tone.	34. Scharf, V ranks.	
29. Octave .....	4 feet.	35. Dulcian .....	16 feet.
30. Hohlflöte .....	4 feet.	36. Hautbois d'Amour .....	8 feet.

*Brustwerk (Swell).*

37. Principal .....	8 feet.	41. Scharf, V ranks.	
38. Gedact .....	8 feet tone.	42. Trompette .....	8 feet.
39. Octave .....	4 feet.	43. Oboe .....	8 feet.
40. Quintaton .....	4 feet tone.	44. Cimbälstern.	

*Pedal.*

45. Principal .....	32 feet.	52. Octave .....	4 feet.
46. Principal .....	16 feet.	53. Rauschpfeife, II ranks.	
47. Sub-bass .....	16 feet tone.	54. Posaune .....	32 feet.
48. Violon .....	16 feet.	55. Posaune .....	16 feet.
49. Quint .....	10½ feet.	56. Dulcian .....	16 feet.
50. Octave .....	8 feet.	57. Trompette .....	8 feet.
51. Bourdon .....	8 feet tone.	58. Trompette .....	4 feet.

## 68. HAMBURG.

The fine organ in the Church of St. Jacobi, at Hamburg, was built by the Abbe Schnitcker, and was completed towards the close of the seventeenth century. Sebastian Bach, when a young man, was very desirous to obtain the appointment of organist to this church, on account of the great excellence of the instrument it contained ; but, in spite of the excitement which his wonderful playing created, he did not succeed ; the reason being that a clerical amateur, of mediocre talent, offered a sum of money for the appointment, which temptation had more weight with the authorities than the transcendent skill of the great master. The organ has 60 sounding stops, 4 Manuals, and Pedal of 14 stops. The following is the disposition :—

*Great, 12 Stops.*

1. Principal .....	16 feet.	7. Rohrflöte .....	4 feet tone.
2. Quintadena .....	16 feet tone.	8. Quint .....	2½ feet.
3. Octave .....	8 feet.	9. Super-octave .....	2 feet.
4. Viola di Gamba .....	8 feet.	10. Mixture, VI and VIII ranks.	
5. Spitzflöte .....	8 feet.	11. Rauschpfeife.	
6. Octave .....	4 feet.	12. Trompette .....	16 feet.

*Choir, 13 Stops.*

13. Principal .....	8 feet.	20. Octave .....	2 feet.
14. Bauerpfeife .....	8 feet.	21. Sifflote .....	1 foot.
15. Quintadena .....	8 feet tone.	22. Sesquialtera, II ranks.....	2½ feet.
16. Gedact .....	8 feet tone.	23. Scharf, VI and VIII ranks.	
17. Octave .....	4 feet.	24. Dulcian.....	8 feet.
18. Blockflöte.....	4 feet.	25. Trompette .....	8 feet.
19. Nasat.....	2½ feet.		

*Echo, 13 Stops.*

26. Principal .....	8 feet.	33. Gemshorn .....	2 feet.
27. Hohlflöte .....	8 feet.	34. Cymbale, III ranks.	
28. Rohrflöte .....	8 feet tone.	35. Scharf, VI ranks.	
29. Octave .....	4 feet.	36. Trompette .....	8 feet.
30. Spitzflöte .....	4 feet.	37. Oboe, to middle c' .....	8 feet.
31. Nasat.....	2½ feet.	38. Vox humana.....	8 feet tone.
32. Octave .....	2 feet.		

*Swell, 8 Stops.*

39. Principal .....	8 feet.	43. Sesquialtera, II ranks.....	2½ feet.
40. Octave .....	4 feet.	44. Scharf, VI and VIII ranks.	
41. Hohlflöte .....	4 feet.	45. Dulcian.....	8 feet.
42. Waldflöte .....	2 feet.	46. 'Trichter-regal .....	8 feet.

*Pedal, 14 Stops.*

47. Principal, in front .....	32 feet.	54. Rauschpfeife, II ranks.	
48. Octave .....	16 feet.	55. Posaune .....	32 feet.
49. Sub-bass .....	16 feet tone.	56. Posaune .....	16 feet.
50. Octave .....	8 feet.	57. Dulcian.....	16 feet.
51. Octave .....	4 feet.	58. Trompette .....	8 feet.
52. Nachthorn .....	2 feet.	59. Trompette .....	4 feet.
53. Mixtur, VI and VIII ranks.		60. Cornet .....	2 feet.

The 4 Manuals can be coupled together.

*Accessory Stops.*

1 to 5. Five Wind-trunk valves.	7. Glockenspiel.
6. Cymbalstar.	8. Trommel.

The name of the builder of the above excellent organ is held in great veneration in Germany; where his instruments are as highly prized for their stability, as they are justly celebrated for their dignified and impressive tone. The Abbe Schnittker resided at a place about thirty-six English miles from Hamburg, in the Hanoverian territories, in a house that has gone by the name of "the organ-builder's box" or villa ever since.

The three fine instruments, just noticed, form most interesting objects for examination to an English admirer of the organ; not simply on account of the very distinct character in the tone of each, but because they so closely resemble, in quality, the organs of three of the most celebrated builders of this country of past times; and they therefore picture to the hearer what the instruments of those builders would have been, had the art in England been in a more advanced state in their day.

The organ in the Church of St. Catherine, which is the oldest of the three, is strikingly like Harris's in tone; clear, ringing, and dashing in the Mixtures. That in the church of St. Jacobi calls to mind the instruments of Father Smith; resonant, solemn, and dignified; with somewhat less fire than that at St. Catherine's, but rather more fulness. The organ at St. Michael's, the most recently constructed one of the three, also the largest in scale, is less powerful than the others, but very musical and pleasing; and, in all these respects, forcibly calls to mind the excellent instruments of Green.

## 69. HAMBURG.

The organ that lately stood in the Church of St. Nicholas, at Hamburg, had 67 sounding stops, and, like the last, was built by Schnittker, who completed it in the year 1686. The following is a list of the stops that were contained in this instrument :—

*Great, 14 Stops.*

1. Principal .....	16 feet.	8. Spitzflöte .....	4 feet.
2. Quintadena .....	16 feet tone.	9. Rauschpfeife, III ranks ...	2 $\frac{2}{3}$ feet.
3. Octave .....	8 feet.	10. Super-octave .....	2 feet.
4. Spitzflöte .....	8 feet.	11. Mixture, VI to IX ranks.	
5. Salicional, wood .....	8 feet.	12. Scharf, III ranks.	
6. Viola di Gamba .....	8 feet.	13. Trompette .....	16 feet.
7. Octave .....	4 feet.	14. Trompette .....	8 feet.

*Echo, 14 Stops.*

15. Quintadena .....	16 feet tone.	22. Flachflöte .....	2 feet.
16. Octave .....	8 feet.	23. Scharf, IV to VI ranks.	
17. Quintadena .....	8 feet tone.	24. Cymbale, III ranks.	
18. Rohrflöte .....	8 feet tone.	25. Trompette .....	8 feet.
19. Octave .....	4 feet.	26. Trompette .....	4 feet.
20. Rohrflöte .....	4 feet.	27. Krumhorn .....	8 feet tone.
21. Nasat .....	2 $\frac{2}{3}$ feet.	28. Vox humana .....	8 feet tone.

*Choir, in front, 13 Stops.*

29. Bourdon .....	16 feet tone.	36. Sifflote .....	2 feet.
30. Principal .....	8 feet.	37. Querflöte .....	2 feet.
31. Quintadena .....	8 feet tone.	38. Scharf, VI to IX ranks.	
32. Gedact .....	8 feet tone.	39. Dulcian .....	16 feet.
33. Octave .....	4 feet.	40. Trompette .....	8 feet.
34. Rohrflöte .....	4 feet tone.	41. Trompette to middle c <sup>1</sup> ...	8 feet.
35. Sesquialtera, II ranks.....	2 $\frac{2}{3}$ feet.		

*Brustwerk, 10 Stops.*

42. Principal .....	8 feet.	47. Rauschpfeife, II ranks ...	2 $\frac{2}{3}$ feet.
43. Baurpfeife .....	8 feet.	48. Waldflöte .....	2 feet.
44. Blockflöte, wood .....	8 feet.	49. Nasat .....	1 $\frac{1}{2}$ foot.
45. Principal .....	4 feet.	50. Scharf, III to VI ranks.	
46. Blockflöte, wood .....	4 feet.	51. Dulcian .....	8 feet.

*Pedal, 16 Stops.*

52. Principal .....	32 feet.	60. Nachthorn .....	2 feet.
53. Octave .....	16 feet.	61. Mixture, VI to X ranks.	
54. Quint .....	10 $\frac{2}{3}$ feet.	62. Posaune .....	32 feet.
55. Octave .....	8 feet.	63. Posaune .....	16 feet.
56. Violoncello .....	8 feet.	64. Dulcian .....	16 feet.
57. Rauschpfeife, III ranks ...	5 $\frac{1}{2}$ feet.	65. Trompette .....	8 feet.
58. Octave .....	4 feet.	66. Krumhorn .....	8 feet tone.
59. Gedact .....	4 feet tone.	67. Trompette .....	4 feet.

*Accessory Stops.*

1. Cymbalstar.	3. Tremulant.	5 to 10. Six Wind-trunk valves.
2. Glockenspiel.	4. Riegal.	11. Coupler, Choir to Pedal.

## 70. HAMBURG.

The organ that stood in St. Peter's Church, previous to the fire, was the most ancient one in the city. It is not known when or by whom it was originally built ; but the last two Manuals, which were subsequent additions, were made upwards of



300 years ago, *i.e.*, in 1548, at Hartzogenbuch, in Brabant, and sent thither by sea. The stops in the above organ were as follows :—

*Great, 11 Stops.*

1. Principal .....	16 feet.	7. Octave .....	4 feet.
2. Gedact .....	16 feet tone.	8. Rauschpfeife, II ranks ...	2½ feet.
3. Octave .....	8 feet.	9. Mixture, IV ranks.	
4. Rohrflöte .....	8 feet tone.	10. Scharf, III ranks.	
5. Viola di Gamba .....	8 feet.	11. Trompette.....	16 feet.
6. Quint.....	5½ feet.		

*Echo, 14 Stops.*

12. Quintadena .....	16 feet tone.	19. Sesquialtera, II ranks.....	2½ feet.
13. Principal .....	8 feet.	20. Mixture, IV ranks.	
14. Principal .....	8 feet.	21. Cornett, V ranks.	
15. Gedact .....	8 feet tone.	22. Trompette ...	8 feet.
16. Octave .....	4 feet.	23. Trompette ...	8 feet.
17. Spitzflöte .....	4 feet.	24. Oboe Discant ...	8 feet.
18. Nasat .....	2½ feet.	25. Vox Humana .	8 feet tone.

*Choir, in front, 12 Stops.*

26. Principal .....	8 feet.	32. Flöte.....	2 feet.
27. Quintadena .....	8 feet tone.	33. Sifflothe .....	1 foot.
28. Gedact .....	8 feet tone.	34. Scharfe, IV ranks.	
29. Octave .....	4 feet.	35. Dulcian .....	16 feet.
30. Blockflöte .....	4 feet.	36. Trompette .....	8 feet.
31. Sesquialtera, II ranks. ...	2½ feet.	37. Trompette, tenor c. ...	8 feet.

*Pedal, 13 Stops.*

38. Principal .....	32 feet.	45. Posaune .....	32 feet.
39. Untersatz .....	16 feet.	46. Posaune .....	16 feet.
40. Octave .....	8 feet.	47. Dulcian ..	16 feet.
41. Rohr-quint .....	5½ feet tone.	48. Trompette .....	8 feet.
42. Octave .....	4 feet.	49. Trompette .....	4 feet.
43. Mixture, VI ranks.		50. Cornett.....	2 feet.
44. Rauschpfeife, II ranks.			

71. LUBECK.

The Marien Kirche, in the ancient town of Lubeck, contains two organs ; the largest of which stands at the west end of the church, a stately Gothic edifice, measuring upwards of 120 English feet in height inside, and about 300 feet in length. It was built in the year 1518 ; the choir organ being added in the year 1561, which date is ingeniously recorded among the ornamental carving on the top. The case presents a most noble and magnificent, though not elaborate, façade ; and is from 70 to 80 feet in height, 40 in width, and 7 in depth. It has the 32-feet metal pipes in front, the largest of which is 19 inches in diameter. All the front pipes are of pure tin, burnished ; and are slightly but exquisitely diapered about the mouth. The case is made of a handsome dark wood, probably walnut, and has a great quantity of carved and gilt work about it, which gives a gorgeous effect to the whole.

Diederich Buxtehude was organist of this church in the early part of the last century, and was so celebrated, that Sebastian Bach, then a youth, undertook a journey on foot to Lubeck to hear him. Among Buxtehude's compositions for the organ, there is one with a *double* pedal part, with which Bach seems to have been acquainted.

The Lubeck organ has just had a new inside put to it, by J. F. Schulze, of Paulinzel, from a specification drawn up by H. Jimmerthal, the organist to the church. It is laid out in four stories, the swell occupying the upper one. The frame-work and sound-boards are almost entirely of oak ; the front-boards of the latter being of polished mahogany, handsomely inlaid with ebony. The front-boards are

fastened on with *wooden* screws having large six-sided heads, which present the great advantage of being capable of being turned by the fingers unaided. The beams that support the organ are built into the wall behind, and the organ hangs, pendant fashion, therefrom, with the most elegant effect.

The organ has 82 sounding stops, distributed among 4 Manuals and 2 Pedals, and includes 3 stops of 32 feet, 17 of 16 feet, and 30 of 8 feet.

The following is a detailed account of its contents :—

*Great, 21\* Stops.*

1. Bourdon to the tenor c key .....	32 feet tone.	11. Octave .....	4 feet.
2. Principal .....	16 feet.	12. Spitzflöte .....	4 feet.
3. Viola Major .....	16 feet.	13. Gambette .....	4 feet.
4. Bourdon .....	16 feet tone.	14. Nasat .....	2½ feet.
5. Principal .....	8 feet.	15. Rausch-quint, II fach .....	2½ & 2 feet.
6. Gemshorn .....	8 feet.	16. Mixture, V fach .....	2 feet.
7. Hohlflöte .....	8 feet.	17. Cymbale, III fach .....	2 feet.
8. Viol di Gamba .....	8 feet.	18. Cornett, IV fach .....	
9. Gedact .....	8 feet tone.	19. Trompette .....	16 feet.
10. Quint .....	5½ feet.	20. Trompette .....	8 feet.
		21. Trompette .....	4 feet.

*Choir, 16 Stops.*

22. Principal .....	16 feet.	30. Gemshorn .....	4 feet.
23. Bourdon .....	16 feet tone.	31. Rohrflöte .....	4 feet tone.
24. Principal .....	8 feet.	32. Quint .....	2½ feet.
25. Salicional .....	8 feet.	33. Octave .....	2 feet.
26. Spitzflöte .....	8 feet.	34. Mixture, V fach .....	2 feet.
27. Czakan Flöte .....	8 feet.	35. Scharf, III fach .....	2 feet.
28. Gedact .....	8 feet tone.	36. Phyzharmonica .....	16 feet.
29. Octave .....	4 feet.	37. Trompette .....	8 feet.

*Echo, 14 Stops.*

38. Lieblich Gedact .....	16 feet tone.	45. Zartflöte .....	4 feet.
39. Geigen Principal .....	8 feet.	46. Flauto Traverso .....	4 feet.
40. Terpodion .....	8 feet.	47. Quint .....	2½ feet.
41. Lieblich Gedact .....	8 feet tone.	48. Waldflöte .....	2 feet.
42. Flauto Traverso .....	8 feet.	49. Mixture, V fach .....	2 feet.
43. Doppelflöte .....	8 feet tone.	50. Aoline .....	8 feet.
44. Geigen Principal .....	4 feet.	51. Oboc .....	8 feet.

*Swell, 10 Stops.*

52. Quintaton .....	16 feet tone.	57. Principal .....	4 feet.
53. Principal .....	8 feet.	58. Viola d'amour .....	4 feet.
54. Fugara .....	8 feet.	59. Mixture, III fach .....	2 feet.
55. Gedact .....	8 feet tone.	60. Aoline .....	16 feet.
56. Harmonica .....	8 feet.	61. Clarinetto .....	8 feet tone.

*Great Pedal, 16 Stops.*

62. Gross Principal .....	32 feet.	70. Terz .....	6½ feet.
63. Principal Bass .....	16 feet.	71. Quint .....	5½ feet.
64. Basso Maggiore .....	16 feet.	72. Octave .....	4 feet.
65. Violon .....	16 feet.	73. Cornett, V fach .....	
66. Quint .....	10½ feet.	74. Contra Posaune .....	32 feet.
67. Principal Bass .....	8 feet.	75. Posaune .....	16 feet.
68. Basso Minore .....	8 feet.	76. Trompette .....	8 feet.
69. Violoncello .....	8 feet.	77. Clarine .....	4 feet.

*Choir Pedal, 5 Stops.*

78. Sub-bass .....	16 feet tone.	81. Gedact .....	8 feet tone.
79. Doppelflötenbass .....	16 feet tone.	82. Fagotto .....	16 feet.
80. Violoncello .....	8 feet.		

*Accessory Stops, &c.*

- |                                |                              |
|--------------------------------|------------------------------|
| 1. Wind to Great.              | 6. Wind to Pedal Reed-work.  |
| 2. Wind to Choir.              | 7. Wind to Choir Pedal.      |
| 3. Wind to Echo.               | 8. Coupler, Choir to Great.  |
| 4. Wind to Swell.              | 9. Coupler, Echo to Great.   |
| 5. Wind to Great Pedal Basses. | 10. Coupler, Great to Pedal. |

## 72. LUBECK.

The second organ in this church—the “little organ,” as it is called—contains 33 stops, 3 Manuals, and a Pedal; has a 16 feet speaking front, and has the Choir organ in front. The specification is as follows:—

*Great, 8 Stops.*

- |                     |               |                               |              |
|---------------------|---------------|-------------------------------|--------------|
| 1. Quintaton .....  | 16 feet tone. | 5. Flöte .....                | 4 feet.      |
| 2. Principal .....  | 8 feet.       | 6. Rausch-quint, II ranks ... | 2½ & 2 feet. |
| 3. Spitzflöte ..... | 8 feet.       | 7. Mixture, IV and V ranks.   |              |
| 4. Octave .....     | 4 feet.       | 8. Trompette .....            | 8 feet.      |

*Choir, 11 Stops.*

- |                      |              |                               |               |
|----------------------|--------------|-------------------------------|---------------|
| 9. Principal .....   | 8 feet.      | 15. Sesquialtera, II ranks .. | 2½ & 1½ feet. |
| 10. Quintadena ..... | 8 feet tone. | 16. Mixture, IV ranks.        |               |
| 11. Rohrflöte .....  | 8 feet tone. | 17. Scharf, V ranks.          |               |
| 12. Octave .....     | 4 feet.      | 18. Fagotto .....             | 16 feet tone. |
| 13. Rohrflöte .....  | 4 feet tone. | 19. Regal .....               | 8 feet.       |
| 14. Flöte .....      | 2 feet.      |                               |               |

*Swell, 4 Stops.*

- |                  |              |                         |         |
|------------------|--------------|-------------------------|---------|
| 20. Gedact ..... | 8 feet tone. | 22. Cornett, III ranks. |         |
| 21. Gedact ..... | 4 feet tone. | 23. Trompette .....     | 8 feet. |

*Pedal, 10 Stops.*

- |                                |                |                              |              |
|--------------------------------|----------------|------------------------------|--------------|
| 24. Principal, in front .....  | 16 feet.       | 29. Octave .....             | 4 feet.      |
| 25. Gross Quint, stopped ..... | 10½ feet tone. | 30. Mixture, III ranks ..... | 2½ feet.     |
| 26. Octave .....               | 8 feet.        | 31. Posame .....             | 16 feet.     |
| 27. Gedact .....               | 8 feet tone.   | 32. Trompette .....          | 8 feet.      |
| 28. Octave .....               | 8 feet.        | 33. Schalmey .....           | 4 feet tone. |

## 73. LUBECK.

The organ in the second church, not the cathedral, has 4 Manuals, and Pedal and 45 stops, of which the following is a list:—

*Great, 9 Stops.*

- |                        |               |                               |          |
|------------------------|---------------|-------------------------------|----------|
| 1. Principal .....     | 16 feet.      | 6. Flöte .....                | 4 feet.  |
| 2. Quintaton .....     | 16 feet tone. | 7. Rauschpfeife, 11 ranks ... | 2½ feet. |
| 3. Octave .....        | 8 feet.       | 8. Mixture, VIII ranks.       |          |
| 4. Viol di Gamba ..... | 8 feet.       | 9. Scharf, VI ranks.          |          |
| 5. Octave .....        | 4 feet.       |                               |          |

*Choir, 10 Stops.*

- |                     |              |                        |              |
|---------------------|--------------|------------------------|--------------|
| 10. Principal ..... | 8 feet.      | 15. Flöte .....        | 4 feet.      |
| 11. Gedact .....    | 8 feet tone. | 16. Siffelote .....    | 2 feet.      |
| 12. Quintaton ..... | 8 feet tone. | 17. Mixture, IV ranks. |              |
| 13. Barpfeife ..... | 8 feet.      | 18. Schalmey .....     | 8 feet tone. |
| 14. Octave .....    | 4 feet.      | 19. Regal .....        | 8 feet.      |

*Echo, 10 Stops.*

20. Principal .....	8 feet.	25. Nasat .....	2½ feet.
21. Hohlflöte .....	8 feet.	26. Waldflöte .....	2 feet.
22. Zink .....	8 feet.	27. Cymbale, III ranks.	
23. Principal .....	4 feet.	28. Trompette .....	8 feet.
24. Flöte .....	4 feet.	29. Vox humana .....	8 feet tone.

*Swell, 7 Stops.*

30. Gedact .....	8 feet tone.	34. Scharf, IV ranks.	
31. Octave .....	4 feet.	35. Dulcian, .....	16 feet tone.
32. Quintaton .....	8 feet tone.	36. Regal .....	8 feet.
33. Waldflöte .....	2 feet.		

*Pedal, 9 Stops.*

37. Principal .....	16 feet.	42. Octave .....	4 feet.
38. Sub-bass .....	16 feet tone.	43. Mixture, IV ranks.	
39. Octave .....	8 feet.	44. Posaune .....	16 feet.
40. Violoncello .....	8 feet.	45. Trompette .....	8 feet.
41. Gedact .....	8 feet tone.		

## 74. WISMAR.

The organ in St. Mary's Church, at Wismar, was built by J. F. Schulze, and was finished in 1840. It has 56 sounding stops, 8 bellows, and 3 Manuals and Pedal. The following is a list of the stops:—

*Great, 15 Stops.*

1. Bourdon to g .....	32 feet tone.	9. Octave .....	4 feet.
2. Principal .....	16 feet.	10. Gemshorn .....	4 feet.
3. Quintaton .....	16 feet tone.	11. Scharf, V ranks.	
4. Octave .....	8 feet.	12. Cymbale, III ranks.	
5. Hohlflöte .....	8 feet.	13. Cornett, III ranks.	
6. Terpodion .....	8 feet.	14. Trompette .....	16 feet.
7. Gedact .....	8 feet tone.	15. Trompette .....	8 feet.
8. Quint .....	5½ feet.		

*Choir, 13 Stops.*

16. Bourdon .....	16 feet.	23. Spitzflöte .....	4 feet.
17. Principal .....	8 feet.	24. Flöte .....	4 feet.
18. Gemshorn .....	8 feet.	25. Quint and Octave, II ranks	2½ & 2 feet.
19. Gamba .....	8 feet.	26. Mixture, IV ranks .....	1½ foot.
20. Flauto Traverso .....	8 feet.	27. Phyzharmonica .....	16 feet.
21. Gedact .....	8 feet tone.	28. Tronpette .....	8 feet.
22. Octave .....	4 feet.		

*Swell, 11 Stops.*

29. Lieblich Gedact .....	16 feet.	35. Octave .....	4 feet.
30. Geigen Principal .....	8 feet.	36. Fugara .....	4 feet.
31. Salicional .....	8 feet.	37. Waldflöte .....	2 feet.
32. Zartflöte .....	8 feet.	38. Mixture, III ranks.	
33. Flauto Traverso .....	8 feet.	39. Æoline .....	8 feet.
34. Lieblich Gedact .....	8 feet tone.		

*Pedal, 17 Stops.*

40. Principal Bass .....	32 feet.	49. Gedact Bass .....	8 feet tone.
41. Principal .....	16 feet.	50. Octave .....	4 feet.
42. Quintaton .....	16 feet.	51. Mixture, V ranks.	
43. Major Bass .....	16 feet.	52. Posaune .....	32 feet.
44. Sub-bass .....	16 feet tone.	53. Posaune .....	16 feet.
45. Quint .....	10½ feet.	54. Bombarde .....	16 feet.
46. Octaven Bass .....	8 feet.	55. Trompette .....	8 feet.
47. Violone .....	8 feet.	56. Clarino .....	4 feet.
48. Minor Bass .....	8 feet.		

## 75. PERLEBERG.

The organ in the Church at Perleberg was built by Tobias Turley and his son, John F. Turley, in 1831, and has 36 sounding stops:—

*Great, 14 Stops.*

1. Bourdon .....	16 feet tone.	9. Quint, Prussian tin .....	3 feet.
2. Principal, Eng. tin, in front	8 feet.	10. Super-octave, Prussian tin	2 feet.
3. Spitzflöte, metal to tenor c, lowest octave wood.....	8 feet.	11. Scharf, V ranks, Prussian tin .....	2, 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$ , 1, and $\frac{2}{3}$ feet.
4. Hohlfloete, metal to tenor c, lowest octave wood. . . .	8 feet.	12. Cymbale, III ranks, Prus- sian tin .....	1, $\frac{1}{2}$ , and $\frac{1}{4}$ foot.
5. Rohrflöte, metal . . . . .	8 feet tone.	13. Cornett, III ranks, Eng. tin .....	2 $\frac{2}{3}$ , 2, and 1 $\frac{2}{3}$ feet.
6. Octave, Prussian tin . . . .	4 feet.	14. Trompette .....	8 feet.
7. Gemshorn, metal. . . . .	4 feet.		
8. Lieblich Gedact, metal ...	4 feet tone.		

*Choir, 12 Stops.*

15. Bourdon, metal, except the lowest octave, which is of wood.....	16 feet tone.	19. Gedact, metal .....	8 feet tone.
16. Principal, in front . . . . .	8 feet.	20. Octave .....	4 feet.
17. Viol di Gamba, Eng. tin to tenor c, last octave wood	8 feet.	21. Rohrflöte .....	4 feet tone.
18. Flauto Traverso, pear-tree wood .....	8 feet.	22. Nasat .....	2 $\frac{2}{3}$ feet.
		23. Super-octave .....	2 feet.
		24. Mixture, III ranks ..	1 $\frac{1}{2}$ , 1, and $\frac{2}{3}$ foot.
		25. Æoline, wood . . . . .	16 feet.
		26. Hautbois, treble . . . .	8 feet.

*Pedal, 10 Stops.*

27. Untersatz, wood .....	32 feet tone.	32. Gedact-bass, wood .....	8 feet tone.
28. Principal, in front	16 feet.	33. Terz, wood . . . . .	6 $\frac{2}{3}$ feet.
29. Sub-bass, wood .....	16 feet tone.	34. Super-octave, metal . .	4 feet.
30. Gross Nasat, wood .....	10 $\frac{2}{3}$ feet.	35. Posauze .. .. .	16 feet.
31. Octave, wood .....	8 feet.	36. Trompette .....	8 feet.

## 76. BERLIN.

The organ in St. Mary's Church at Berlin was originally built, in 1722, by Joachim Wagner, but has received subsequent additions at the hands of Buchholz, of Berlin. It now has 40 sounding stops, 3 Manuals, a Pedal of 9 stops, and 6 pairs of bellows, 9 feet long by 4 $\frac{1}{2}$  broad. The stops are distributed as follows:—

*Great, 12 Stops.*

1. Bourdon .....	16 feet tone.	7. Quint .....	2 $\frac{2}{3}$ feet.
2. Principal .....	8 feet.	8. Super-octave .....	2 feet.
3. Rohrflöte ..	8 feet tone.	9. Cornett, V ranks.	
4. Viol di Gamba ..	8 feet.	10. Scharf, V ranks.	
5. Octave .....	4 feet.	11. Cymbale, III ranks.	
6. Spitzflöte .....	4 feet.	12. Trompette .....	8 feet.

*Choir, 9 Stops.*

13. Salicional .....	8 feet.	18. Fugara.....	4 feet.
14. Gemshorn.....	8 feet.	19. Lieblichflöte ..	4 feet tone.
15. Gedact .....	8 feet tone.	20. Nazard.....	2 $\frac{2}{3}$ feet.
16. Quintaton .....	8 feet tone.	21. Super-octave .....	2 feet.
17. Octave .....	4 feet.		

*Echo, 10 Stops.*

22. Quintaton .....	16 feet tone.	28. Super-octave .....	2 feet.
23. Principal ..	8 feet.	29. Siffloete .....	1 foot.
24. Gedact .....	8 feet tone.	30. { Mixture, major } IV ranks.	
25. Octave .....	4 feet.	30. { Mixture, minor }	
26. Rohrflöte .....	4 feet tone.	31. { Hautbois, discant }	8 feet.
27. Nazard .....	2 $\frac{2}{3}$ feet.	31. { Fagotto, bass }	

*Pedal, 9 Stops.*

32. Principal, in front .....	16 feet.	37. Bass-flote .....	8 feet tone.
33. Sub-bass .....	16 feet tone.	38. Octave .....	4 feet.
34. Violon .....	16 feet.	39. Contra-Posaune .....	32 feet.
35. Gross Nazard .....	10½ feet.	40. Posaune .....	16 feet.
36. Gemshorn .....	8 feet.		

*Accessory Stops.*

- |                             |                                     |
|-----------------------------|-------------------------------------|
| 1. Coupler, Choir to Great. | 3. Coupler, Great to Pedal.         |
| 2. Coupler, Echo to Great.  | 4, 5, 6, 7. Four Wind-trunk valves. |

## 77. BERLIN.

The organ in the Garrison Church at Berlin was built, in 1725, by Joachim Wagner, and contains 49 stops, 3 Manuals, and Pedal of 12 stops. The names and distribution of the stops are as follow :—

*Great, 13 Stops.*

1. Bourdon .....	16 feet tone.	8. Quint .....	2½ feet.
2. Principal .....	8 feet.	9. Octave .....	2 feet.
3. Rohrflöte .....	8 feet tone.	10. Mixture, IV ranks.	
4. Viol di Gamba .....	8 feet.	11. Cornett, V ranks.	
5. Flauto Traverso .....	8 feet.	12. Scharf, VI ranks.	
6. Octave .....	4 feet.	13. Fagotto .....	16 feet.
7. Spitzflöte .....	4 feet.		

*Echo, 11 Stops.*

14. Gedact .....	8 feet tone.	20. Flageolet .....	2 feet.
15. Quintaton .....	8 feet tone.	21. Terz .....	1½ foot.
16. Principal .....	4 feet.	22. Quint .....	1½ foot.
17. Rohrflöte .....	4 feet tone.	23. Cymbale, IV ranks.	
18. Nasat .....	2½ feet.	24. Vox humana .....	8 feet tone.
19. Octave .....	2 feet.		

*Choir, 13 Stops.*

25. Quintaton .....	16 feet tone.	32. Octave .....	2 feet.
26. Principal .....	8 feet.	33. Waldflöte .....	2 feet.
27. Gedact .....	8 feet tone.	34. Sifflöte .....	1 foot.
28. Salicional .....	8 feet.	35. Scharf, V ranks.	
29. Octave .....	4 feet.	36. Cymbale, III ranks.	
30. Fugara .....	4 feet.	37. { Trompette Discant }	8 feet.
31. Quint .....	2½ feet.	37. { Trompette Bass }	

*Pedal, 12 Stops.*

38. Principal, in front .....	16 feet.	44. Quint .....	2½ feet.
39. Violon .....	16 feet.	45. Mixture, VIII ranks.	
40. Octave .....	8 feet.	46. Posaune .....	32 feet.
41. Gemshorn .....	8 feet.	47. Posaune .....	16 feet.
42. Quint .....	5½ feet.	48. Trompette .....	8 feet.
43. Nachthorn .....	4 feet.	49. Clarion .....	4 feet.

## 78. KRONSTADT.

The fine organ in the Cathedral Church at Kronstadt was built from the plans of C. Buchholz, of Berlin, in 1839. It contains 63 sounding stops, 4 Manuals, and Pedal of 17 stops, and 9 large pairs of bellows. The stops are distributed as follows :—

*Great, 15 Stops.*

1. Principal .....	16 feet.	9. Spitzflöte .....	4 feet.
2. Quintaton .....	16 feet tone.	10. Waldflöte .....	4 feet.
3. Principal .....	8 feet.	11. Quint .....	2½ feet.
4. Rohrflöte .....	8 feet tone.	12. Super-octave .....	2 feet.
5. Gemshorn .....	8 feet.	13. Cornett, V ranks.	
6. Viol di Gamba .....	8 feet.	14. Scharf, V ranks.	
7. Nasat .....	5½ feet.	15. Cymbale, V ranks.	
8. Octave .....	4 feet.		

*Echo, 13 Stops.*

16. Bourdon .....	16 feet tone.	23. Rohrflöte .....	4 feet tone.
17. Principal .....	8 feet.	24. Fugara .....	4 feet.
18. Gedact .....	8 feet tone.	25. Nasat .....	2½ feet.
19. Salicional .....	8 feet.	26. Super-octave, II ranks ...	2 feet.
20. Hohlflöte .....	8 feet.	27. Mixture, V ranks.	
21. Quintaton .....	8 feet tone.	28. Hautbois .....	8 feet.
22. Octave .....	4 feet.		

*Choir, 11 Stops.*

29. Salicional .....	16 feet.	35. Viol d'amour .....	4 feet.
30. Principal .....	8 feet.	36. Flauto Douce .....	4 feet.
31. Gedact .....	8 feet tone.	37. Gemshorn Quint .....	2½ feet.
32. Viol di Gamba .....	8 feet.	38. Decima Quint .....	2 feet.
33. Flauto Traverso .....	8 feet.	39. Progressio harmonica, III	
34. Octave .....	4 feet.	to V ranks.	

*Reed-work Manual, 7 Stops.*

40. Fagotto .....	16 feet.	44. Rohrflöte .....	8 feet tone.
41. Trompette .....	8 feet.	45. Violon .....	8 feet.
42. Clarionetti .....	8 feet.	46. Principal ...	4 feet.
43. Vox Angelica .....	8 feet.		

Nos. 44, 45, and 46 are Lip Stops.

*Pedal, 17 Stops.*

47. Principal .....	32 feet.	56. Gemshorn .....	8 feet.
48. Untersatz .....	32 feet tone.	57. Quint .....	5½ feet.
49. Principal .....	16 feet.	58. Octave .....	4 feet.
50. Sub-bass .....	16 feet tone.	59. Mixture, IV ranks.	
51. Violon .....	16 feet.	60. Contra-Posaune .....	32 feet.
52. Nasat .....	10¾ feet.	61. Posaune .....	16 feet.
53. Principal .....	8 feet.	62. Trompette .....	8 feet.
54. Bass-flöte .....	8 feet tone.	63. Cornett .....	4 feet.
55. Violon .....	8 feet.		

*Accessory Stops, Movements, &c.*

1, 2, 3. Three Manual Couplers.	5 to 9. Five Wind-trunk valves.
4. Pedal Coupler.	

*Compass.*

Manuals, CC to g <sup>3</sup> in alt, 56 notes.	Pedal, CCC to fiddle g, 32 notes.
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## 79. LEIPZIG.

The organ in the University Church at Leipzig is a very fine instrument, but the touch is so heavy that playing on it is a great labour. It has 3 Manuals and Pedal, and 58 stops, of which latter the following is an enumeration:—

*Great, 18 Stops.*

1. Principal .....	16 feet.	10. Quint .....	2½ feet.
2. Bourdon .....	16 feet tone.	11. Octave .....	2 feet.
3. Octave .....	8 feet.	12. Tertia .....	1½ feet.
4. Gemshorn .....	8 feet.	13. Mixture, VI ranks.	
5. Gamba .....	8 feet.	14. Cymbale, III ranks.	
6. Rohrflöte .....	8 feet tone.	15. Cornett, V ranks.	
7. Quinta .....	5½ feet.	16. Fagotto .....	16 feet.
8. Octave .....	4 feet.	17. Trompette .....	8 feet.
9. Gemshorn .....	4 feet.	18. Clarion .....	4 feet.

*Choir, 12 Stops.*

19. Salicional .....	8 feet.	25. Nasat .....	2 feet.
20. Flöte .....	8 feet.	26. Octave .....	2 feet.
21. Rohrflöte .....	8 feet tone.	27. Quint .....	1½ feet.
22. Principal .....	4 feet.	28. Flageolet .....	1 foot.
23. Flöte .....	4 feet.	29. Mixture, IV ranks.	
24. Gedact .....	4 feet tone.	30. Oboe .....	8 feet.

*Echo, 14 Stops.*

31. Quintaton .....	16 feet tone.	38. Rohrflöte .....	4 feet tone.
32. Principal .....	8-feet.	39. Quint .....	2½ feet.
33. Spitzflöte .....	8 feet.	40. Octave .....	4 feet.
34. Fugara .....	8 feet.	41. Mixture, VI ranks.	
35. Quintaton .....	8 feet tone.	42. Cornett, III ranks.	
36. Gedact .....	8 feet tone.	43. Phyzharmonica .....	8 feet tone.
37. Octave .....	4 feet.	44. Vox humana ..	8 feet tone.

*Pedal, 14 Stops.*

45. Principal .....	32 feet.	52. Quint .....	5½ feet.
46. Octave .....	16 feet.	53. Octave .....	4 feet.
47. Violon .....	16 feet.	54. Mixture, V ranks.	
48. Sub-bass .....	16 feet tone.	55. Posaune .....	32 feet.
49. Quint .....	10½ feet.	56. Posaune .....	16 feet.
50. Octave .....	8 feet.	57. Trompette .....	8 feet.
51. Violoncello .....	8 feet.	58. Clarion .....	4 feet.

*Accessory Stops, Movements, &c.*

1. Echo to Great.	4. Tremulant Echo.
2. Choir to Great.	5, 6, 7. Three Wind-trunk valves.
3. Great to Pedal.	

*Compass.*Manuals, CC to e<sup>3</sup> in alt.

Pedal, CCC to tenor e.

## DRESDEN.

The five principal churches in the city of Dresden all contain very fine organs, four of which are by Silbermann, one of the most renowned German organ-builders of the last century, and whose name (Silbermann) very well describes the sparkling and chaste tone of his instruments. In the *Ramble among the Musicians of Germany*, a most interesting volume, written by the late Mr. Edward Holmes, and published in 1828, the author, in describing these instruments, observes:—"In glancing over the list of contents, the musical reader may please his imagination by fancying with what effect a piece of florid and artful counterpoint comes out of a German organ, where the player sits with a flood of sound ready to the touch of his fingers and store of thunder lying harmless at his feet. The thickness, depth, and independence of the Pedals here vindicate supremely the poetical ascendancy of the fugue over every other class of musical composition; and in slow subjects, when the bass rolls in its ponderousness—there is no disputing it—it is like the *fiat* of the Omnipotent. As a matter of science, it is worthy consideration how far the structure of our organs might be improved by uniting the sweet *cathedral* quality of tone for which those of the Temple, Westminster Abbey, &c., are noted with the magnificence of Silbermann. If there lived now in England a mechanic capable of associating the best points of the two, a perfect specimen of the kind would be the result." Since the above excellent observations on the effect of the Dresden organs were written, a considerable advance has been made in the art of organ-building in England.



The largest of Silbermann's four Dresden organs stands in the Royal Catholic Church.

## 80. DRESDEN.

The fine organ in the Royal Catholic Church is esteemed Silbermann's masterpiece. Gottfried Silbermann died during its progress, and it was finished by his nephew, John Daniel Silbermann, of Strasbourg, who had assisted him in the work; and was completed and erected in the year 1754. It has 48 stops, distributed in the following manner :—

*Great, 16 Stops.*

1. Principal .....	16 feet.	9. Octave .....	2 feet.
2. Bourdon .....	16 feet tone.	10. Terz .....	1½ foot.
3. Principal .....	8 feet.	11. Mixture, IV ranks.	
4. Viol di Gamba .....	8 feet.	12. Cymbale, III ranks.	
5. Rohrflöte .....	8 feet tone.	13. Cornett, V ranks.	
6. Octave .....	4 feet.	14. Fagotto .....	16 feet.
7. Spitzflöte .....	4 feet.	15. Trompette .....	8 feet.
8. Quint .....	2½ feet.	16. Clarion .....	4 feet.

*Echo, 14 Stops.*

17. Quintaton .....	16 feet tone.	24. Nasat .....	2½ feet.
18. Principal .....	8 feet.	25. Octave .....	2 feet.
19. Gedact .....	8 feet tone.	26. Terz .....	1½ foot.
20. Quintaton .....	8 feet tone.	27. Flageolet .....	1 foot.
21. Unda Mens .....	8 feet tone.	28. Mixture, IV ranks.	
22. Octave .....	4 feet.	29. Echo, V ranks.	
23. Rohrflöte .....	4 feet tone.	30. Vox humana .....	8 feet tone.

*Choir, 10 Stops.*

31. Gedact .....	8 feet tone.	36. Quint .....	1½ foot.
32. Principal .....	4 feet.	37. Sifflöte .....	1 foot.
33. Rohrflöte .....	4 feet tone.	38. Mixture, III ranks.	
34. Nasat .....	2½ feet.	39. Sesquialtera, II ranks.	
35. Octave .....	2 feet.	40. Chalmesau .....	8 feet tone.

*Pedal, 8 Stops.*

41. Untersatz .....	32 feet tone.	45. Mixture, VI ranks.	
42. Principal .....	16 feet.	46. Posaune .....	16 feet.
43. Octave-bass .....	8 feet.	47. Trompette .....	8 feet.
44. Octave .....	4 feet.	48. Clarion .....	4 feet.

*Accessory Stops, &c.*

1. Echo to Great.	3. Tremulant Echo.
2. Great to Pedal.	4. Tremulant Great.

*Compass.*

Manuals, CC to d³ in alt.	Pedal, CCC to tenor c.
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## 81. DRESDEN.

The organ in the Royal Church of the Evangelists, at Dresden, was completed and erected by Silbermann in the year 1720. It has 32 sounding stops, distributed among 2 Manuals and Pedal, in the following manner :—

*Great, 14 Stops.*

1. Bourdon .....	16 feet tone.	8. Octave .....	2 feet.
2. Principal .....	8 feet.	9. Terz .....	1½ foot.
3. Spitzflöte .....	8 feet.	10. Mixture, IV ranks.	
4. Rohrflöte .....	8 feet tone.	11. Cymbale, III ranks.	
5. Octave .....	4 feet.	12. Cornett, IV ranks.	
6. Gemshorn .....	4 feet.	13. Trompette .....	8 feet.
7. Quint .....	2½ feet.	14. Clarion .....	4 feet.

*Choir, 13 Stops.*

15. Quintaton .....	16 feet tone.	22. Nasat .....	2½ feet.
16. Principal .....	8 feet.	23. Octave .....	2 feet.
17. Gedact .....	8 feet tone.	24. Quint .....	1½ foot.
18. Quintaton .....	8 feet tone.	25. Sifflothe .....	1 foot.
19. Unda Maris .....	8 feet tone.	26. Mixture, III ranks.	
20. Octave .....	4 feet.	27. Vox humana .....	8 feet.
21. Rohrflöte .....	4 feet tone.		

*Pedal, 5 Stops.*

28. Principal Bass .....	16 feet.	31. Posaune .....	16 feet.
29. Sub-bass .....	16 feet tone.	32. Trompette .....	8 feet tone.
30. Violon .....	8 feet.		

## 82. DRESDEN.

The organ in St. Mary's Church was completed in the year 1736. It has 43 Stops, 3 Manuals, and a Pedal of 8 stops, including a covered stop of 32-feet tone. The distribution of the stops is as follows:—

*Great, 14 Stops.*

1. Principal .....	16 feet.	8. Octave .....	2 feet.
2. Octave .....	8 feet.	9. Terz .....	1½ foot.
3. Viol di Gamba .....	8 feet.	10. Mixture, IV ranks.	
4. Rohrflöte .....	8 feet tone.	11. Cymbale, III ranks.	
5. Octave .....	4 feet.	12. Cornett, V ranks.	
6. Spitzflöte .....	4 feet.	13. Fagotto .....	16 feet.
7. Quint .....	2½ feet.	14. Trompette .....	8 feet.

*Echo, 11 Stops.*

15. Quintadena .....	16 feet tone.	21. Nasat .....	2½ feet.
16. Principal .....	8 feet.	22. Octave .....	2 feet.
17. Gedact .....	8 feet tone.	23. Terz .....	1½ foot.
18. Quintaton .....	8 feet tone.	24. Mixture, IV ranks.	
19. Octave .....	4 feet.	25. Vox humana .....	8 feet tone.
20. Rohrflöte .....	4 feet tone.		

*Choir, 10 Stops.*

26. Gedact .....	8 feet tone.	31. Gemshorn .....	2 feet.
27. Principal .....	4 feet.	32. Quint .....	1½ foot.
28. Rohrflöte .....	4 feet tone.	33. Sifflothe .....	1 foot.
29. Nasat .....	2½ feet.	34. Mixture, III ranks.	
30. Octave .....	2 feet.	35. Chalumeau .....	8 feet tone.

*Pedal, 8 Stops.*

36. Untersatz .....	32 feet tone.	40. Mixture, VI ranks.	
37. Principal Bass .....	16 feet.	41. Posaune .....	16 feet.
38. Octave Bass .....	8 feet.	42. Trompette .....	8 feet.
39. Octave .....	4 feet.	43. Clarion .....	4 feet.

*Neben Register.*

1. Tremulant. | 2. Schwebung. | 3. Bass Ventil. | 4. Coppel. | 5. Klingel.

## 83. DRESDEN.

The organ in the Church of St. Sophia, at Dresden, was built by Silbermann, about the year 1750, and is a very fine instrument. It contains 33 stops, which are distributed among 2 Manuals and Pedal in the following manner:—

*Great, 15 Stops.*

1. Bourdon .....	16 feet tone.	9. Octave .....	2 feet.
2. Quintaton .....	16 feet tone.	10. Terz .....	1½ foot.
3. Principal .....	8 feet.	11. Mixture, V ranks.	
4. Spitzflöte .....	8 feet.	12. Cymbale, III ranks.	
5. Rohrflöte .....	8 feet tone.	13. Cornett, V ranks.	
6. Octave .....	4 feet.	14. { Trompette Discant } .....	8 feet.
7. Gemshorn .....	4 feet.	14. { Trompette Bass } .....	
8. Quint .....	2½ feet.	15. Clarion .....	4 feet.

*Choir, 12 Stops.*

16. Quintaton .....	16 feet.	22. Rohrflöte.....	4 feet tone.
17. Principal .....	8 feet.	23. Nasat.....	2½ feet.
18. Gedact .....	8 feet tone.	24. Octave.....	2 feet.
19. Quintaton .....	8 feet tone.	25. Super-octave .....	1 foot.
20. Unda Maris .....	8 feet tone.	26. Mixture, III ranks.	
21. Octave .....	4 feet.	27. Vox humana .....	8 feet tone.

*Pedal, 6 Stops.*

28. Principal .....	16 feet.	31. Cornett, VIII ranks.	
29. Bourdon .....	16 feet tone.	32. Posaune .....	16 feet.
30. Sub-bass .....	16 feet.	33. Trompette .....	8 feet.

*Accessory Stops, &c.*

1. Coupler, Choir to Great.
2. Coupler, Great to Pedal.
3. Tremulant to Choir.

*Compass.*

Manuals, CC to d<sup>3</sup> in alt.  
Pedal, CCC to tenor c.

## 84. DRESDEN.

The organ in the Church of the Holy Cross, built by Jagermann, of Dresden, is altogether a very fine instrument. It is the largest in the city, and contains 56 sounding stops, 3 Manuals, and Pedal of 32 feet. The following is a list of its contents :—

*Great, 16 Stops.*

1. Principal .....	16 feet.	9. Quint .....	2½ feet.
2. Bourdon .....	16 feet tone.	10. Octave.....	2 feet.
3. Gross-octave .....	8 feet.	11. Terz.....	1½ foot.
4. Gamba .....	8 feet.	12. Mixture, VI ranks.	
5. Gemshorn .....	8 feet.	13. Cymbale, V ranks.	
6. Rohrflöte .....	8 feet tone.	14. Cornett, V ranks.	
7. Octave .....	4 feet.	15. Fagotto .....	16 feet.
8. Gemshorn.....	4 feet.	16. Trompette .....	8 feet.

*Choir, 10 Stops.*

17. Lieblich Gedact ..	8 feet tone.	22. Octave .....	2 feet.
18. Rohrflöte .....	8 feet tone.	23. Quint .....	1½ foot.
19. Principal .....	4 feet.	24. Sifflöte.....	1 foot.
20. Rohrflöte .....	4 feet tone.	25. Mixture, IV ranks.	
21. Nasat .....	2½ feet.	26. Cromorne .....	8 feet tone.

*Echo, 14 Stops.*

27. Quintaton .....	16 feet tone.	34. Quint .....	2½ feet.
28. Principal .....	8 feet.	35. Octave .....	2 feet.
29. Schwegel .....	8 feet.	36. Flageolet.....	1 foot.
30. Gedact .....	8 feet tone.	37. Mixture, V ranks.	
31. Quintaton .....	8 feet.	38. Cymbale, IV ranks.	
32. Octave .....	4 feet.	39. Cornett, V ranks.	
33. Rohrflöte .....	4 feet tone.	40. Vox humana .....	8 feet tone.

*Pedal, 16 Stops.*

41. Gross Principal Bass .....	32 feet.	49. Koppel .....	8 feet.
42. Principal Bass .....	16 feet.	50. Quint Bass ..	5½ feet.
43. Violon Bass.....	16 feet.	51. Octave Bass .....	4 feet.
44. Sub-bass .....	16 feet tone.	52. Octave Bass .....	2 feet.
45. Gedact Quint Bass .....	10½ feet tone.	53. Mixture Bass, VI ranks.	
46. Principal Bass .....	8 feet.	54. Posaune Bass .....	16 feet.
47. Quintaton Bass .....	8 feet tone.	55. Trompette Bass .....	8 feet.
48. Violon Bass .....	8 feet.	56. Clarion Bass .....	4 feet.

*Accessory Stops, &c.*

1. Coupler, Great to Pedal.  
2. Coupler, Echo to Great.

3. Tremulant Echo.  
4, 5, 6. Three trunk valves.

*Couplers.*

Manuals, CC to d<sup>8</sup> in alt.

Pedal, CCC to tenor d.

## 85. FREIBERG IN SAXONY.

The cathedral at Freiberg, in Saxony, contains one of Silbermann's largest and finest organs, comprising 45 stops, 3 Manuals, and a Pedal of 10 stops. The following is a list of the several stops contained therein :—

*Great, 13 Stops.*

- |                              |               |                              |         |
|------------------------------|---------------|------------------------------|---------|
| 1. Bourdon, wood in the bass | 16 feet tone. | 9. Fourniture, IV ranks,     |         |
| 2. Principal, Eng. tin       | 8 feet.       | Eng. tin.                    |         |
| 3. Viol di Gamba, tin        | 8 feet.       | 10. Cymbale, III ranks, Eng. |         |
| 4. Rohrflöte, tin            | 8 feet tone.  | tin.                         |         |
| 5. Octave, tin               | 4 feet.       | 11. Cornett, V ranks, Eng.   |         |
| 6. Quint, tin                | 2½ feet.      | tin.                         |         |
| 7. Super-octave, tin         | 2 feet.       | 12. Trompette, Eng. tin      | 8 feet. |
| 8. Tierce                    | 1½ foot.      | 13. Clarion, Eng. tin        | 4 feet. |

*Choir, 13 Stops.*

- |                            |               |                              |              |
|----------------------------|---------------|------------------------------|--------------|
| 14. Quintaton, Eng. tin    | 16 feet tone. | 22. Fourniture, III ranks,   |              |
| 15. Principal, Eng. tin    | 8 feet.       | Eng. tin.                    |              |
| 16. Bourdon, metal treble, |               | 23. Cymbale, III ranks, Eng. |              |
| wood bass                  | 8 feet tone.  | tin.                         |              |
| 17. Octave, Eng. tin       | 4 feet.       | 24. Echo Cornett, V ranks,   |              |
| 18. Flute, Eng. tin        | 4 feet.       | metal.                       |              |
| 19. Nazard, metal          | 2½ feet.      | 25. Cromorne, Eng. tin       | 8 feet tone. |
| 20. Super-octave, Eng. tin | 2 feet.       | 26. Vox humana, Eng. tin     | 8 feet tone. |
| 21. Tierce, Eng. tin       | 1½ foot.      |                              |              |

*Echo, 9 Stops.*

- |                         |              |                            |          |
|-------------------------|--------------|----------------------------|----------|
| 27. Bourdon, metal      | 8 feet tone. | 32. Tierce, metal          | 1½ foot. |
| 28. Principal, Eng. tin | 4 feet.      | 33. Quint, Eng. tin        | 1½ foot. |
| 29. Rohrflöte, Eng. tin | 4 feet tone. | 34. Sifflöte, Eng. tin     | 1 foot.  |
| 30. Nazard, metal       | 2½ feet.     | 35. Fourniture, III ranks, |          |
| 31. Octave, Eng. tin    | 2 feet.      | Eng. tin.                  |          |

*Pedal, 10 Stops.*

- |                              |               |                                |          |
|------------------------------|---------------|--------------------------------|----------|
| 36. Untersatz, wood          | 32 feet tone. | 41. Super-octave, tin          | 4 feet.  |
| 37. Principal Bass, Eng. tin | 16 feet.      | 42. Fourniture, VI ranks, tin. |          |
| 38. Sub-bass, wood           | 16 feet tone. | 43. Bombarde, tin              | 16 feet. |
| 39. Octave, wood             | 16 feet.      | 44. Trompette, tin             | 8 feet.  |
| 40. Octave Bass, tin         | 8 feet.       | 45. Clarion, tin               | 4 feet.  |

*Accessory Stops, &c.*

Coupler, Great to Pedal.  
Wind-trunk valves.

Two Tremulants.  
Six bellows.

## 86. PRAGUE.

The organ in the Church of St. Dominico, at Prague, is a very large and most interesting instrument. It has 4 Manuals and Pedal and 71 stops, distributed in the following manner :—

*Great, 14 Stops.*

- |                 |               |                        |          |
|-----------------|---------------|------------------------|----------|
| 1. Principal    | 16 feet.      | 8. Super-octave        | 2 feet.  |
| 2. Gross Gedact | 16 feet tone. | 9. Spitzflöte          | 2 feet.  |
| 3. Octave       | 8 feet.       | 10. Sexte              | 2½ feet. |
| 4. Gedact       | 8 feet tone.  | 11. Quint              | 1½ foot. |
| 5. Octave       | 4 feet.       | 12. Kuzialflöte        | 1 foot.  |
| 6. Offensflöte  | 4 feet.       | 13. Mixture, X ranks.  |          |
| 7. Quint        | 2½ feet.      | 14. Cymbale, IV ranks. |          |

*Echo, 12 Stops.*

15. Quintaton .....	16 feet tone.	21. Nachthorn .....	4 feet.
16. Surdun .....	16 feet tone.	22. Super-octave .....	2 feet.
17. Principal .....	8 feet.	23. Rauschpfeife, III ranks...	2½ feet.
18. Gemshorn .....	8 feet.	24. Koppel Quint .....	1½ feet.
19. Hohlflöte .....	8 feet.	25. Mixture, VI ranks.	
20. Octave .....	4 feet.	26. Cromorne .....	8 feet tone.

*Inside Choir, 9 Stops.*

27. Gedact .....	8 feet tone.	32. Sedecima .....	1 foot.
28. Gedact .....	4 feet tone.	33. Cymbale, III ranks.	
29. Quintaton .....	4 feet tone.	34. Jungfern regal .....	16 feet.
30. Octave .....	4 feet.	35. Regal .....	8 feet.
31. Quint .....	1½ feet.		

*Front Choir, 18 Stops.*

36. Principal .....	16 feet.	45. Super-octave .....	2 feet.
37. Salicional .....	16 feet.	46. Gemshorn .....	2 feet.
38. Principal .....	8 feet.	47. Waldflöte .....	2 feet.
39. Rohrflöte .....	8 feet tone.	48. Sexte .....	1½ feet.
40. Quintaton .....	8 feet tone.	49. Sifflöte .....	1 foot.
41. Octave .....	4 feet.	50. Mixture, V ranks.	
42. Blockflöte .....	4 feet.	51. Cornett, III ranks.	
43. Querflöte .....	4 feet.	52. Dulcian, of wood .....	16 feet.
44. Quint .....	2½ feet.	53. Trompette .....	8 feet.

*Pedal, 18 Stops.*

54. Principal .....	32 feet.	65. {	Quint, III ranks.
55. Octave .....	16 feet.		Super-octave, II ranks.
56. Principal .....	16 feet.		Tertian, II ranks.
57. Salicional .....	16 feet.		Koppel, III ranks.
58. Octave .....	8 feet.	66. Mixture, VIII ranks.	
59. Gross Quint .....	5½ feet.	67. Posaune .....	32 feet.
60. Super-octave .....	4 feet.	68. Posaune .....	16 feet.
61. Nachthorn .....	4 feet.	69. Dulcian .....	16 feet.
62. Spitzflöte .....	2 feet.	70. Trompette .....	8 feet.
63. Koppel .....	2 feet.	71. Schalmey .....	4 feet.
64. Bauerflöte .....	1 foot.		

## 87. GOERLITZ.

The organ in the Church of St. Peter and St. Paul, at Goerlitz, in Upper Lusatia, was built by Eugenius Casparini and his son, Adam Horatius, in six years; and was consecrated by a solemn service, August 19th, 1703. It has 82 stops, 55 of which are whole stops, and 3,270 pipes, 522 of which are of metal. The front of the organ case shows above 280 pipes of polished tin, the largest of which is the FFFF in the Pedal, 24 feet long. The organ has 3 Manuals and 12 pairs of bellows. The following is an enumeration of the whole stops:—

*Great, 16 Stops.*

1. Principal, in front .....	16 feet.	9. Quint .....	2½ feet.
2. Octave Principal .....	8 feet.	10. Sedecima .....	2 feet.
3. Viol di Gamba .....	8 feet.	11. Quint .....	1½ feet.
4. Quintadena .....	8 feet tone.	12. Mixture, V ranks.	
5. Gedact .....	8 feet tone.	13. Rauschpfeife, III ranks.	
6. Flöte-quint .....	5½ feet.	14. Bombarde .....	16 feet.
7. Super-octave .....	4 feet.	15. Trompette .....	8 feet.
8. Salicional .....	4 feet.	16. Vox humana .....	8 feet tone.

*Echo, 8 Stops.*

17. Gedact .....	8 feet tone.	21. Nason .....	1½ feet.
18. Principal .....	4 feet.	22. Sedecima .....	1 foot.
19. Octave .....	2 feet.	23. Mixture, III ranks.	
20. Flageolet .....	2 feet.	24. Hautbois .....	8 feet.

*Choir, 12 Stops.*

25. Quintadena, cypress-wood	16 feet tone.	31. Sedecima...	2 feet.
26. Principal .....	8 feet.	32. Flageolet .....	2 feet.
27. Unda Maris, cypress-wood	8 feet tone.	33. Super-sedecima .....	1 foot.
28. Octave .....	4 feet.	34. Cornett, V ranks.	
29. Flöte .....	4 feet tone.	35. Mixture, II ranks.	
30. Quint.....	2½ feet.	36. Cymbale, II ranks.	

*Pedal, 19 Stops.*

37. Gross Principal, tin .....	32 feet.	47. Rustic .....	2 feet.
38. Violon Bass .....	16 feet.	48. Mixture, V ranks.	
39. Bourdon .....	16 feet tone.	49. Scharf, II ranks.	
40. Tubalflöte .....	8 feet.	50. Cymbale, II ranks.	
41. Quintadena .....	8 feet tone.	51. Posaune .....	16 feet.
42. Quint .....	5½ feet.	52. Fagotto .....	16 feet.
43. Super-octave .....	4 feet.	53. Trompette .....	8 feet.
44. Virgin royal .....	4 feet.	54. Schalmey-bass .....	8 feet tone.
45. Tubalflöte .....	4 feet.	55. Corno .....	8 feet.
46. Tubalflöte .....	2 feet.		

Compass of Pedals, 2 Octaves, from CCC to tenor c.

## 88. GOERLITZ.

The organ in St. Mary's Church, at Goerlitz, has 16 sounding stops, and was built by Buckow, in 1838.

*Great, 8 Stops.*

1. Bourdon, wood .....	16 feet tone.	6. Super-octave, 12 loth.	
2. Principal, 14 loth. Eng.		Eng. tin .....	2 feet.
tin, in front .....	8 feet.	7. Mixture, 12 loth. Eng.	
3. Flaut grave, wood .....	8 feet.	tin, IV ranks .....	2 feet.
4. Principal-octave, 14 loth.		8. Cornett to fiddle g, III	
Eng. tin, in front .....	4 feet.	ranks .....	2 feet.
5. Gemshorn-quint, 12 loth.		9. Slide for a Trompette ..	8 feet.
Eng. tin. ....	2½ feet.		

*Choir, 4 Stops.*

10. Viol di Gamba, 12 loth.		12. Dulcian, wood ..	8 feet.
Eng. tin .....	8 feet.	13. Flaut d'amour, wood.....	4 feet tone.
11. Flaut Douce, wood.....	8 feet.		

*Pedal, 3 Stops.*

14. Violon, pine-wood .....	16 feet tone.	16. Posaune .....	16 feet.
15. Violoncello, pine-wood ..	8 feet.		

*Accessory Stops.*

1. Coupler, Choir to Great. | 2. Coupler, Great to Pedal.

## 89. LIEGNITZ.

The organ in the Church of St. Peter and St. Paul, at Liegnitz, was erected by Buckow, in the year 1839. It has 3 Manuals and Pedal, and 42 sounding stops, the names and distribution of which are as follow :—

*Great, 13 Stops.*

1. Bourdon, wood .....	16 feet tone.	8. Flaut Douce, metal .....	4 feet.
2. Principal, ¾ tin.....	8 feet.	9. Quint, metal .....	2½ feet.
3. Gemshorn, tin .....	8 feet.	10. Super-octave, metal .....	2 feet.
4. Viol d'amour, tin... ..	8 feet.	11. Flautino, metal .....	2 feet.
5. Flaut grave .....	8 feet.	12. Progressio, III, IV, and	
6. Flaut Douce, wood.....	8 feet.	V ranks .....	2 feet.
7. Octave, tin .....	4 feet.	13. Cornett, III ranks.....	5½, 4, 3½ ft.

*Choir, 8 Stops.*

14. Quintaton, tin ; the great octave of wood .....	16 feet tone.	18. Piffaro, $\frac{2}{3}$ Eng. tin.....	4 feet.
15. Salicional, $\frac{1}{2}$ Eng. tin. ....	8 feet.	19. Flautino, $\frac{2}{3}$ Eng. tin ...	2 feet.
16. Pyramidflöte, wood.....	8 feet.	20. Cornett, III ranks, Eng. tin .....	2 $\frac{1}{2}$ , 2, 1 $\frac{1}{2}$ ft.
17. Prestant, $\frac{1}{2}$ Eng. tin .....	4 feet.	21. Oboe .....	8 feet.

*Echo, 9 Stops.*

22. Prestant, $\frac{2}{3}$ tin .....	8 feet.	26. Flaut amoroso, metal ...	4 feet.
23. Viola di Gamba, $\frac{1}{2}$ tin.....	8 feet.	27. Spitzflöte-quint, tin ...	2 $\frac{3}{4}$ feet.
24. Flaut amabile, metal, the bass octave of wood ...	8 feet.	28. Octave, tin .....	2 feet.
25. Principal, $\frac{1}{2}$ Eng. tin .....	4 feet.	29. Flaut Piccolo, tin ....	1 foot.
		30. Mixture, III ranks.....	1 $\frac{1}{2}$ feet.

*Pedal, 12 Stops.*

31. Principal, polished tin, in front .....	16 feet.	37. Bass-flöte, wood....	8 feet tone.
32. Violon, oak .....	16 feet.	38. Quint, tin and wood ...	5 $\frac{1}{2}$ feet.
33. Prestant, oak .....	16 feet.	39. Super-octave .....	4 feet.
34. Sub-bass .....	16 feet tone.	40. Octave.....	2 feet.
35. Principal .....	8 feet.	41. Posaune .....	16 feet.
36. Violoncello, wood .....	8 feet.	42. Trompette .....	8 feet.

*Accessory Stops.*

1. Coupler, Choir to Great.	3. Coupler, Great to Pedal.
2. Coupler, Echo to Great.	4, 5, 6, 7. Four Wink-trunk valves.

## 90. BRESLAU.

The Cathedral Church of St. John, at Breslau, contains no less than 3 distinct organs ; one in the nave, a second in the choir, and a third in one of the small chapels. The Great organ has 60 sounding stops, 3 Manuals, and a Pedal of 18 stops ; 4,700 pipes, and 12 bellows. The following are the details of the largest organ :—

*Great, 16 Stops.*

1. Principal, in front, tin ...	16 feet.	9. Super-octave, metal ...	4 feet.
2. Quintaton, metal .....	16 feet tone.	10. Rohrflöte, metal. ...	4 feet tone.
3. Octave, in front, tin ...	8 feet.	11. Gemshorn, metal ..	4 feet.
4. Gemshorn, metal.....	8 feet.	12. Quint, metal .....	2 $\frac{3}{4}$ feet.
5. Salicet, metal .....	8 feet.	13. Sedecima, metal.....	2 feet.
6. Quintaton, metal.. .....	8 feet tone.	14. Scharf, metal, IV ranks.	
7. Flaut major, wood .....	8 feet.	15. Mixture, metal, VII ranks.	
8. Quint, metal.....	5 $\frac{1}{2}$ feet.	16. Trompette, tin .....	8 feet.

*Echo, 14 Stops.*

17. Bourdon, maple-wood.....	16 feet tone.	24. Spitzflöte, metal.....	4 feet.
18. Principal, tin .....	8 feet.	25. Doppel Rohrflöte, maple	4 feet tone.
19. Salicet, tin .....	8 feet.	26. Nasat, metal .....	2 $\frac{3}{4}$ feet.
20. Flaut allemande, metal ...	8 feet.	27. Super-octave, metal ...	2 feet.
21. Doppel Rohrflöte, maple	8 feet tone.	28. Cymbale, metal, III ranks.	
22. Octave, tin .....	4 feet.	29. Mixture, metal, VI ranks.	
23. Salicet, tin .....	4 feet.	30. Clarinett, tin .....	8 feet tone.

*Choir, 12 Stops.*

31. Principal, in front, tin ...	8 feet.	37. Octave, metal.....	4 feet.
32. Gamba, metal .....	8 feet.	38. Flaut minor, wood.....	4 feet.
33. Flaut Traverse.....	8 feet.	39. Quint, metal .....	2 $\frac{3}{4}$ feet.
34. Quintaton .....	8 feet tone.	40. Super-octave, metal .....	2 feet.
35. Flaut Douce.....	8 feet.	41. Mixture, metal, IV ranks.	
36. Flaut major .....	8 feet.	42. Hautbois, metal .....	8 feet.

*Pedal, 18 Stops.*

43. Principal, of tin to FFFF sharp, and in front; the lower pipes of wood .....	32 feet.	51. Gemshorn, metal .....	8 feet.
44. Octave, metal .....	16 feet.	52. Violoncello, wood .....	8 feet.
45. Violon, wood .....	16 feet.	53. Doppelflote, of oak .....	8 feet tone.
46. Gamba, wood .....	16 feet.	54. Quint, metal .....	5½ feet.
47. Sub-bass, of oak .....	16 feet tone.	55. Sedecima, metal .....	4 feet.
48. Quintaton, of oak .....	16 feet tone.	56. Nachthorn, of oak .....	4 feet.
49. Gemshorn-quint, metal ..	10½ feet.	57. Posaune, wood .....	32 feet.
50. Principal, tin .....	8 feet.	58. Posaune, wood .....	16 feet.
		59. Fagotto, wood .....	16 feet.
		60. Trompette, tin .....	8 feet.

*Accessory Stops, &c.*

1. Echo to Great.	6. Wind-valve to Echo.
2. Choir to Great.	7. Wind-valve to great Pedal Sound-board.
3. Great to Pedal.	8. Wind-valve to Pedal Reed-work and 32 feet Principal.
4. Wind-valve to Great.	
5. Wind-valve to Choir.	

*Compass.*

Manuals, CC to f <sup>3</sup> in alt.	Pedal, CCC to tenor c.
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## 91. BRESLAU.

*The Choir organ :—**Manual, 9 Stops.*

1. Principal .....	8 feet.	6. Doppel Rohrflote .....	4 feet tone.
2. Gamba .....	8 feet.	7. Nasat-quint .....	2½ feet.
3. Flaut allemande .....	8 feet.	8. Super-octave .....	2 feet.
4. Flaut major .....	8 feet tone.	9. Mixture, IV ranks.	
5. Octave .....	4 feet.		

*Pedal, 3 Stops.*

10. Sub-bass .....	16 feet tone.	12. Super-octave .....	4 feet.
11. Octave Bass .....	4 feet.		

*Compass.*

Manual, CC to f <sup>3</sup> in alt.	Pedal, CCC to tenor c.	Coupler, Manual to Pedal.
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## 91B. BRESLAU.

*The little organ in one of the Chapels :—*

1. Salicet .....	8 feet.	5. Flaut allemande .....	4 feet.
2. Quintaton .....	8 feet tone.	6. Quint .....	2½ feet.
3. Principal .....	4 feet.	7. Super-octave .....	2 feet.
4. Flaut amabile .....	4 feet.	8. Mixture, III ranks.	

## 92. BRESLAU.

The old part of the large organ in the Church of St. Mary Magdalen, at Breslau, is the work of Joh. Roder, of Berlin, who constructed it in 1725; to whose work additions were made by Engler in 1821. The organ has now 55 sounding stops, 3 Manuals, and Pedal of 16 stops; 3,415 pipes, and 10 pairs of bellows. There is, besides the large organ, a small one in the choir, of 12 stops. Contents of the large organ :—

*Great, 14 Stops.*

1. Contra Principal, of tin, in front .....	16 feet.	8. Rohrflote, metal .....	4 feet tone.
2. Quintaton, metal .....	16 feet tone.	9. Quint, metal .....	2½ feet.
3. Principal, metal .....	8 feet.	10. Super-octave, metal .....	2 feet.
4. Salicet, tin .....	8 feet.	11. Scharf, IV ranks .....	1 foot.
5. Flaut allemande major, wood ..	8 feet tone.	12. Mixture, VIII ranks .....	1½ foot.
6. Quintaton .....	8 feet tone.	13. Rausch-quint, II ranks .....	2½ feet.
7. Octave, metal .....	4 feet.	14. Trompette, metal .....	8 feet.



*Echo, 13 Stops.*

15. Principal, of tin, in front...	8 feet.	22. Quint, metal .....	2 $\frac{3}{4}$ feet.
16. Gemshorn, metal .....	8 feet.	23. Super-octave, metal . . .	2 feet.
17. Salicet to tenor f, tin .....	8 feet.	24. Waldflöte, metal .....	2 feet.
18. Flaut major, wood .....	8 feet tone.	25. Mixture, VI ranks, metal	1 $\frac{1}{2}$ foot.
19. Octave, metal .....	4 feet.	26. Cymbale, III ranks, metal	1 $\frac{1}{2}$ foot.
20. Doppel Spitzflöte, wood ...	4 feet.	27. Vox humana, wood .....	8 feet tone.
21. Fugara, metal .....	4 feet.		

*Choir, 12 Stops.*

28. Principal, of tin, in front ..	8 feet.	34. Doppelflöte, wood . . .	4 feet tone.
29. Salicet to fiddle g, wood ..	8 feet.	35. Quint, metal .....	2 $\frac{3}{4}$ feet.
30. Flaut allemande, metal . .	8 feet.	36. Super-octave, metal .....	2 feet.
31. Flaut amabile, wood .....	8 feet.	37. Cymbale, II ranks .....	1 $\frac{1}{2}$ foot.
32. Octave, metal .....	4 feet.	38. Mixture, IV ranks .....	1 foot.
33. Spitzflöte, metal .....	4 feet.	39. Oboe, metal.....	8 feet.

*Pedal, 16 Stops.*

40. Principal .....	32 feet.	48. Flauten Bass, wood . . .	8 feet.
41. Octave, metal .....	16 feet.	49. Quint, metal .....	5 $\frac{1}{2}$ feet.
42. Violon, wood .....	16 feet.	50. Super-octave, metal .....	4 feet.
43. Salicet, wood .....	16 feet.	51. Mixture, V ranks, metal ..	4 feet.
44. Sub-bass, wood.....	16 feet tone.	52. Posaune, wood .....	32 feet.
45. Octave Bass .....	8 feet.	53. Posaune .....	16 feet.
46. Violoncello, wood .....	8 feet.	54. Fagotto, metal .....	16 feet.
47. Doppelflöte Bass, wood ...	8 feet tone.	55. Trompette, tin. ....	8 feet.

*Accessory Stops, &c.*

1. Choir to Great.	6. Wind-valve to Pedal Flue-work.
2. Echo to Great.	7. Wind-valve to Pedal Reed-work.
3. Wind-valve to Great.	8. Glockenspiel to Great.
4. Wind-valve to Choir.	9. Glockenspiel to Pedal.
5. Wind-valve to Echo.	

*Compass.*

Manuals, CC to c<sup>3</sup> in alt, without CC sharp. | Pedal, CCC to tenor d, without CCC sharp.

## 93. BRESLAU.

The large organ in St. Elizabeth's Church, Breslau, was built by Michael Engler, in 1750, and has since been enlarged (1830) by Müller. It has 54 sounding stops, 3 Manuals, and Pedal of 14 stops; and 8 large pairs of bellows. In the Choir there is a smaller organ, containing 17 stops. The details of the chief organ are as follow :—

*Great, 16 Stops.*

1. Salicet, tin.....	16 feet.	9. Nachthorn . . . . .	4 feet.
2. Quintaton, tin . . . . .	16 feet tone.	10. Quint .....	2 $\frac{3}{4}$ feet.
3. Bourdon, wood.....	16 feet tone.	11. Super-octave .....	2 feet.
4. Principal, tin.....	8 feet.	12. Cymbale, III ranks.	
5. Gemshorn, tin .....	8 feet.	13. Mixture, VI ranks.	
6. Salicet, tin.....	8 feet.	14. Muset Bass .....	16 feet.
7. Flaut major, wood .....	8 feet tone.	15. Trompette, metal . . . .	8 feet.
8. Octave, tin.....	4 feet.	16. Vox humana, tin (labial)	8 feet.

*Echo, 14 Stops.*

17. Bourdon, wood.....	16 feet tone.	24. Rohrflöte, wood .....	4 feet tone.
18. Principal, tin .....	8 feet.	25. Quint, metal .....	2 $\frac{3}{4}$ feet.
19. Salicet, tin .....	8 feet.	26. Super-octave .....	2 feet.
20. Fugara, tin .....	8 feet.	27. Terz .....	1 $\frac{1}{2}$ foot.
21. Flaut amabile, wood .....	8 feet.	28. Rausch-quint .....	2 $\frac{3}{4}$ feet.
22. Octave, tin.....	4 feet.	29. Mixture, IV ranks.	
23. Spitzflöte, wood .....	4 feet.	30. Schalmey, metal .....	8 feet tone.

*Choir, 10 Stops.*

31. Principal .....	8 feet.	36. Portunal, wood .....	4 feet.
32. Flaut allemande, tin .....	8 feet.	37. Quint, metal .....	2½ feet.
33. Flaut amabile, wood .....	8 feet.	38. Super-octave .....	2 feet.
34. Quintaton, wood .....	8 feet tone.	39. Mixture, III ranks.	
35. Octave, tin .....	4 feet.	40. Oboe, metal.....	8 feet.

*Pedal, 14 Stops.*

41. Major Bass, wood .....	32 feet tone.	48. Bassflöte, wood .....	8 feet tone.
42. Principal, of tin, in front...	16 feet.	49. Gemshorn Quint, metal...	5½ feet.
43. Salicet, of tin and wood ...	16 feet.	50. Super-octave, tin .....	4 feet.
44. Violon, wood .....	16 feet.	51. Mixture, metal, V ranks.	
45. Sub-bass, wood .....	16 feet tone.	52. Posaune .....	32 feet.
46. Quintaton, wood .....	16 feet tone.	53. Posaune, wood .....	16 feet.
47. Principal, tin, in front ...	8 feet.	54. Trompette, tin.....	8 feet.

*Accessory Stops, &c.*

1. Choir to Great.	5. Wind-valve to Choir.
2. Echo to Great.	6. Wind-valve to Pedal flue-work.
3. Wind-valve to Great.	7. Wind-valve to Pedal reed-work.
4. Wind-valve to Echo.	

*Compass.*

Manuals, CC to c<sup>3</sup> in alt., without CC sharp. | Pedal, CCC to tenor c, without CCC sharp.

## 94. BRESLAU.

## Contents of the small organ in Choir:—

*Manual, 12 Stops.*

1. Principal, in front .....	8 feet.	7. Flaut minor .....	4 feet.
2. Quintaton .....	8 feet tone.	8. Quint .....	2½ feet.
3. Salicet .....	8 feet.	9. Super-octave .....	2 feet.
4. Flaut major .....	8 feet.	10. Cymbale, II ranks.	
5. Principal .....	4 feet.	11. Mixture, IV ranks.	
6. Octave .....	4 feet.	12. Vox humana .....	8 feet tone.

*Pedal, 5 Stops.*

13. Violon .....	16 feet.	16. Doppelflöte .....	8 feet.
14. Sub-bass .....	16 feet tone.	17. Super-octave .....	4 feet.
15. Octave Bass .....	8 feet.		

*Compass.*

Manual, CC to c<sup>3</sup> in alt., 4 octaves. | Pedal, CCC to tenor c, 2 octaves.

## 95. BRESLAU.

The organ in the Church of St. Bernhardin was built by Casparini in 1705, and enlarged by Hartig in 1831. It has 35 sounding stops, 2 Manuals, and Pedal of 12 stops. Besides the large organ, there is a small one in the church which has 14 stops. The specifications are as follow:—

## LARGE ORGAN.

*Great, 13 Stops.*

1. Bourdon .....	16 feet tone.	8. Doppelflöte .....	4 feet.
2. Quintaton .....	16 feet tone.	9. Quint .....	2½ feet.
3. Principal, in front .....	8 feet.	10. Super-octave .....	2 feet.
4. Gamba .....	8 feet.	11. Mixture, V ranks.	
5. Flaut major .....	8 feet.	12. Cymbale, II ranks.	
6. Portunal .....	8 feet.	13. Trompette .....	8 feet.
7. Octave .....	4 feet.		

*Choir, 10 Stops.*

14. Principal, in front .....	8 feet.	19. Quint .....	2 $\frac{3}{4}$ feet.
15. Salicet .....	8 feet.	20. Super-octave .....	2 feet.
16. Flaut amabile .....	8 feet.	21. Mixture, IV ranks.	
17. Octave .....	4 feet.	22. Cymbale, II ranks.	
18. Flaut minor .....	4 feet.	23. Oboe .....	8 feet.

*Pedal, 12 Stops.*

24. Major.....	32 feet.	30. Doppelflote .....	8 feet.
25. Principal, in front .....	16 feet.	31. Quintaton .....	8 feet tone.
26. Violon .....	16 feet.	32. Super-octave .....	4 feet.
27. Sub-bass .....	16 feet tone.	33. Posaune .....	32 feet.
28. Major Quint .....	10 $\frac{3}{4}$ feet.	34. Posaune .....	16 feet.
29. Violon .....	8 feet.	35. Trompette .....	8 feet.

*Accessory Stops, &c.*

1. Choir to Great.	4. Wind-valve to Choir.
2. Great to Pedal.	5. Wind-valve to Pedal flue stops.
3. Wind-valve to Great.	6. Wind-valve to Pedal reed stops.

## 96. SMALL ORGAN.

*Manual, 10 Stops.*

1. Principal .....	8 feet.	6. Flaut Traverso .....	4 feet.
2. Gamba .....	8 feet.	7. Quint .....	2 $\frac{3}{4}$ feet.
3. Quintaton .....	8 feet tone.	8. Super-octave .....	2 feet.
4. Portunal .....	8 feet.	9. Mixture, IV ranks.	
5. Octave .....	4 feet.	10. Cymbale, II ranks.	

*Pedal, 4 Stops.*

11. Violon .....	16 feet.	13. Octave .....	8 feet.
12. Sub-bass .....	16 feet tone.	14. Super-octave .....	4 feet.

## 97. Breslau.

The organ in the Church of St. Vincent, at Breslau, has the very unusual proportion of half as many Pedal stops as there are Manual stops; that is to say, 15 of the former to 30 of the latter. The specification is as follows:—

*Great, 15 Stops.*

1. Quintaton .....	16 feet tone.	9. Gemshorn .....	4 feet.
2. Principal .....	8 feet.	10. Octave .....	2 feet.
3. Gemshorn .....	8 feet.	11. Rauschquint Bass.	
4. Salicional .....	8 feet.	12. Mixture, VI ranks.	
5. Portunal .....	8 feet.	13. Cymbale, III ranks.	
6. Flaut .....	8 feet tone.	14. Cornett, IV ranks.	
7. Unda Maris .....	8 feet.	15. Trompette .....	8 feet.
8. Octave .....	4 feet.		

*Choir, 15 Stops.*

16. Prestant.....	8 feet.	24. Flaut .....	4 feet.
17. Gamba .....	8 feet.	25. Flaut Traverso .....	4 feet.
18. Fugara .....	8 feet.	26. Octave Bass.	
19. Trinona.....	8 feet.	27. Quint, III ranks.	
20. Flaut .....	8 feet.	28. Mixture, IV ranks.	
21. Quintaton .....	8 feet tone.	29. Cymbale, III ranks.	
22. Principal .....	4 feet.	30. Clarinet .....	8 feet tone.
23. Trinona .....	4 feet.		

*Pedal, 15 Stops.*

31. Major .....	32 feet tone.	39. Violon .....	8 feet.
32. Principal .....	16 feet.	40. Violoncello .....	8 feet.
33. Gamba .....	16 feet.	41. Flaut .....	8 feet.
34. Violon .....	16 feet.	42. Gemshorn-quint .....	5½ feet.
35. Sub-bass .....	16 feet tone.	43. Octave .....	4 feet.
36. Quintaton .....	16 feet tone.	44. Posaune .....	16 feet.
37. Octave .....	8 feet.	45. Trompette .....	8 feet.
38. Gamba .....	8 feet.		

*Accessory Stops, Couplers, &c.*

1. Choir to Great.	3, 4, 5. Three wind-trunk valves.
2. Great to Pedal.	Five Bellows.

## 98. BRESLAU.

The organ in the Church of St. Ethelbert, in Breslau, was built by the elder Müller, and completed in 1837. It has 24 sounding stops, 2 Manuals, and Pedal of 5 stops. The following is a list of the stops :—

*Great, 12 Stops.*

1. Bourdon .....	16 feet tone.	7. Octave .....	4 feet.
2. Principal, in front .....	8 feet.	8. Doppel-rohrflöte .....	4 feet tone.
3. Salicet .....	8 feet.	9. Quint .....	2½ feet.
4. Gemshorn .....	8 feet.	10. Super-octave .....	2 feet.
5. Bourdon .....	8 feet tone.	11. Mixture, V ranks.	
6. Gemshorn Quint .....	5½ feet.	12. Clarinette .....	8 feet tone.

*Choir, 7 Stops.*

13. Salicet .....	8 feet.	17. Portunal .....	4 feet.
14. Flaut major .....	8 feet.	18. Super-octave .....	2 feet.
15. Portunal .....	8 feet.	19. Cymbale, II ranks.	
16. Principal .....	4 feet.		

*Pedal, 5 Stops.*

20. Principal .....	16 feet.	23. Octave .....	8 feet.
21. Gamba .....	16 feet.	24. Posaune .....	16 feet.
22. Sub-bass .....	16 feet tone.		

*Accessory Stops, &c.*

1. Choir to Great.	4. Wind-valve to Choir.
2. Great to Pedal.	5. Wind-valve to Pedal.
3. Wind-valve to Great.	

*Compass.*

Manuals, CC to d <sup>3</sup> in alt.	Pedal, CCC to tenor c.
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## 99. BRESLAU.

The organ in the Church of the Eleven Thousand Virgins, at Breslau, was built by Müller, sen., in 1826; and has 27 sounding stops, 2 Manuals, and Pedal. The following is a list of its contents :—

*Great, 11 Stops.*

1. Bourdon .....	16 feet tone.	7. Rohrflöte .....	4 feet tone.
2. Principal .....	8 feet.	8. Quint .....	2½ feet.
3. Gamba .....	8 feet.	9. Super-octave .....	2 feet.
4. Portunal .....	8 feet.	10. Mixture, V ranks.	
5. Doppelflöte .....	8 feet.	11. Clarinett .....	8 feet tone.
6. Octave .....	4 feet.		

*Choir, 9 Stops.*

12. Salicet .....	8 feet.	17. Nasat-quint .....	2½ feet.
13. Quintaton .....	8 feet tone.	18. Super-octave .....	2 feet.
14. Flaut major .....	8 feet.	19. Mixture, III ranks.	
15. Principal .....	4 feet.	20. Vox humana (labial) .....	8 feet.
16. Flauto Traverso .....	4 feet.		

*Pedal, 7 Stops.*

21. Violon .....	16 feet.	25. Doppelflote .....	8 feet tone.
22. Gamba .....	16 feet.	26. Octave .....	4 feet.
23. Sub-bass .....	16 feet tone.	27. Posaune .....	16 feet.
24. Octave .....	8 feet.		

*Accessory Stops, &c.*

1. Choir to Great.	4. Wind-valve to Choir.
2. Great to Pedal.	5. Wind-valve to Pedal.
3. Wind-valve to Great.	Compass of Manuals, CC to f <sup>a</sup> in alt.

## 100. BRESLAU.

The organ in the Church of St. Salvator, in Breslau, has 19 stops, of which number 8 are on the Pedal. The following shows the disposition :—

*Manual, 11 Stops.*

1. Principal, in front.....	8 feet.	7. Flaut minor ...	4 feet.
2. Salicet .....	8 feet.	8. Quint .....	2½ feet.
3. Quintaton .....	8 feet tone.	9. Super-octave .....	2 feet.
4. Flaut major .....	8 feet.	10. Mixture, IV ranks.	
5. Octave .....	4 feet.	11. Cymbale, II ranks.	
6. Gemshorn .....	4 feet.		

*Pedal, 8 Stops.*

12. Violon .....	16 feet.	16. Quint .....	5½ feet.
13. Sub-bass .....	16 feet tone.	17. Super-octave .....	4 feet.
14. Octave Bass .....	8 feet.	18. Mixture, III ranks.	
15. Flote Bass.....	8 feet tone.	19. Posaune .....	16 feet.

## 101. BRESLAU.

The organ in the Cemetery Church at Breslau has 12 stops, as follows :—

*Great, 6 Stops.*

1. Principal. ....	8 feet.	4. Flaut major .....	8 feet.
2. Salicet.....	8 feet.	5. Octave .....	4 feet.
3. Quintaton .....	8 feet tone.	6. Spitzflote .....	4 feet.

*Choir, 3 Stops.*

7. Dulcian (labial) .....	8 feet.	8. Flaut amabile .....	8 feet.
		9. Doppelflote .....	4 feet.

*Pedal, 3 Stops.*

10. Sub-bass ..	16 feet tone.	11. Quintaton ..	16 feet tone.	12. Octave-bass ..	8 feet.
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*Couplers, &c.*

1. Great to Pedal.	
Compass of Manuals, CC to c <sup>a</sup> in alt.	Compass of Pedal, CCC to tenor c.

## 102. BRESLAU.

The organ in the Church of St. Mauritius, in Breslau, has 9 stops, of which the following is a list :—

*Manual, 7 Stops.*

1. Principal .....	8 feet.	5. Gemshorn.....	4 feet.
2. Hohlflote .....	8 feet.	6. Quint.....	2½ feet.
3. Gedact .....	8 feet tone.	7. Super-octave .....	2 feet.
4. Octave .....	4 feet.		

*Pedal, 2 Stops.*

8. Sub-bass .....	16 feet tone.	9. Octave Bass .....	8 feet.
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## 103. Breslau.

The organ in the Church of St. Barbara, at Breslau, has 21 sounding stops, of which the following is a list :—

*Great, 8 Stops.*

1. Quintaton .....	16 feet tone.	5. Octave .....	4 feet.
2. Principal .....	8 feet.	6. Quint .....	2½ feet.
3. Salicet .....	8 feet.	7. Super-octave ..	2 feet.
4. Flöte .....	8 feet tone.	8. Mixture, V ranks.	

*Upper Manual, Choir, 7 Stops.*

9. Salicet .....	8 feet.	13. Quint .....	2½ feet.
10. Flöte .....	8 feet tone.	14. Super-octave ..	2 feet.
11. Principal .....	4 feet.	15. Mixture, II ranks.	
12. Doppelflöte ..	4 feet tone.		

*Pedal, 6 Stops.*

16. Sub-bass .....	16 feet tone.	19. Quint Bass ..	5½ feet.
17. Octave Bass ..	8 feet.	20. Gemshorn ..	4 feet.
18. Flöte Bass .....	8 feet tone.	21. Fagotto .....	16 feet.

## 104. Breslau.

The organ in the Music-room of the University at Breslau has 14 stops, distributed in the following manner :—

*First Manual, 6 Stops.*

1. Principal .....	8 feet.	4. Doppel-rohrflöte ..	4 feet tone.
2. Portunal .....	8 feet.	5. Quint .....	2½ feet.
3. Octave .....	4 feet.	6. Super-octave ..	2 feet.

*Upper Manual, 4 Stops.*

7. Salicional, metal ..	8 feet.	9. Rohrflöte ..	4 feet tone.
8. Gedact, metal, treble ..	8 feet tone.	10. Waldflöte, metal ..	2 feet.

*Pedal, 4 Stops.*

11. Violon .....	16 feet.	13. Violon .....	8 feet.
12. Sub-bass .....	16 feet tone.	14. Principal .....	4 feet.

*Compass, &c.*

Manuals, CC to f <sup>a</sup> in alt.	3 Bellows, 8 feet by 4.	Pedals, CCC to tenor e.
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## 105. Cracow.

The organ in the Evangelist's Church at Cracow has 15 stops, of which the following is a list :—

*Great, 9 Stops.*

1. Bourdon, wood .....	16 feet.	6. Hohlflöte, wood .....	4 feet.
2. Principal, tin .....	8 feet.	7. Quint, tin .....	2½ feet.
3. Gamba, tin .....	8 feet.	8. Super-octave, tin ..	2 feet.
4. Flöte, wood .....	8 feet.	9. Mixture, II ranks ..	2 feet.
5. Octave, tin .....	4 feet.		

*Choir, 3 Stops.*

10. Salicet...8 feet.	11. Portunal...8 feet.	12. Portunal...4 feet.
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*Pedal, 3 Stops.*

13. Violon...16 feet.	14. Sub-bass...16 feet tone.	15. Violon...8 feet.
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## 106. WARSAW.

The organ in the Lutheran Church at Warsaw has 27 sounding stops. It was built in 1827-9 by Robert Müller, jun., of Breslau, and has 6 bellows, 10 feet long by 5 in breadth. The following is an enumeration of the stops :—

*Great, 10 Stops.*

1. Principal, tin, in front.....	16 feet.	6. Octave, tin .....	4 feet.
2. Principal, tin .....	8 feet.	7. Doppel-rohrflöte, wood...	4 feet tone.
3. Gemshorn, tin .....	8 feet.	8. Quint, tin .....	2½ feet.
4. Portunal wood .....	8 feet.	9. Octave, tin .....	2 feet.
5. Doppelflöte, wood .....	8 feet tone.	10. Mixture, tin, IV ranks.	

*Choir, 8 Stops.*

11. Salicet, tin .....	8 feet.	15. Principal, tin .....	4 feet.
12. Flauto, wood .....	8 feet.	16. Salicet, tin .....	4 feet.
13. Flaut Traverso, wood.....	8 feet.	17. Violini, tin .....	2 feet.
14. Quintaton, tin .....	8 feet tone.	18. Clarinett .....	8 feet tone.

*Pedal, 9 Stops.*

19. Major, wood.....	32 feet tone.	24. Quint, wood .....	5½ feet.
20. Violon, wood .....	16 feet.	25. Octave, tin .....	4 feet.
21. Gamba, wood .....	16 feet.	26. Posaune, wood .....	16 feet.
22. Sub-bass wood.....	16 feet tone.	27. Trompette, wood .....	8 feet.
23. Octave Bass, wood .....	8 feet.		

## 107. VIENNA.

The organ in the Cathedral Church of St. Stephen, at Vienna, is a very old one. It has 41 stops, distributed among 2 Manuals and Pedal in the following manner :—

*Great, 18 Stops.*

1. Major Flute .....	16 feet.	10. Fugara.....	4 feet.
2. Quintaton .....	16 feet tone.	11. Nachthorn .....	4 feet.
3. Principal .....	8 feet.	12. Quint .....	2½ feet.
4. Bourdon .....	8 feet tone.	13. Super-octave .....	2 feet.
5. Gamba .....	8 feet.	14. Mixture, VIII ranks.	
6. Salicional .....	8 feet.	15. Sesquialtera, IV ranks.	
7. Octave .....	4 feet.	16. Cymbale, VIII ranks.	
8. Spitzflöte .....	4 feet.	17. Scharf, IV ranks.	
9. Gamba .....	4 feet.	18. Trompette .....	8 feet.

*Choir, 10 Stops.*

19. Coppel .....	8 feet.	24. Flöte .....	4 feet.
20. Rohrflöte .....	8 feet tone.	25. Dulcian .....	4 feet.
21. Flöte amabile .....	8 feet.	26. Nazard.....	2½ feet.
22. Quintaton .....	8 feet tone.	27. Octave.....	2 feet.
23. Principal .....	4 feet.	28. Mixture, V ranks.	

*Pedal, 13 Stops.*

29. Principal, metal .....	16 feet.	36. Octave.....	4 feet.
30. Sub-bass, wood .....	16 feet.	37. Mixture, VI ranks.	
31. Bourdon .....	16 feet tone.	38. Cornett, IV ranks.	
32. Principal, metal .....	8 feet.	39. Bombarde .....	16 feet.
33. Octave, wood .....	8 feet.	40. Posaune .....	16 feet.
34. Violoncello .....	8 feet.	41. Trompette .....	8 feet.
35. Quint.....	5½ feet.		

*Accessory Stops, &c.*

1. Choir to Great.	3. Tremulant.
2. Great to Pedal.	4, 5, 6, Three Wind-trunk valves.

*Compass.*Manuals, CC to d<sup>9</sup> in alt.

Pedal, CCC to tenor c.

## 108. VIENNA.

The organ in St. Michael's Church, at Vienna, is a very old instrument. It has 3 Manuals, Pedal, and 40 stops, the distribution and names of which are as follow :—

*Great, 16 Stops.*

1. Bourdon .....	16 feet tong.	9. Nachthorn .....	4 feet.
2. Principal .....	8 feet.	10. Feldflöte .....	4 feet.
3. Piffaro .....	8 feet.	11. Quint .....	2½ feet.
4. Quintaton .....	8 feet tone.	12. Tierce .....	1½ foot.
5. Salicional .....	8 feet.	13. Mixture, II ranks.	
6. Octave .....	4 feet.	14. Sesquialtera, III ranks.	
7. Fugara .....	4 feet.	15. Cymbale, V ranks.	
8. Spitzflöte .....	4 feet.	16. Super-octave .....	1 foot.

*Choir, 10 Stops.*

17. Coppel .....	8 feet.	22. Flöte minor .....	4 feet.
18. Flöte major .....	8 feet.	23. Quint .....	2½ feet.
19. Principal .....	4 feet.	24. Octave .....	2 feet.
20. Octave .....	4 feet.	25. Super-octave .....	1 foot.
21. Coppel .....	4 feet.	26. Mixture, II ranks.	

*Echo, 4 Stops.*

27. Coppel .....	8 feet.	29. Flöte .....	4 feet.
28. Principal .....	4 feet.	30. Octave .....	2 feet.

*Pedal, 10 Stops.*

31. Principal, metal .....	16 feet.	36. Coppel .....	8 feet.
32. Sub-bass, wood .....	16 feet.	37. Octave .....	4 feet.
33. Bourdon, wood .....	16 feet tone.	38. Cornett, III ranks.	
34. Octave, metal .....	8 feet.	39. Posaune .....	16 feet.
35. Octave, wood .....	8 feet.	40. Trompette .....	8 feet.

*Accessory Stops, &c.*

1. Choir to Great.
2. Echo to Great.

*Compass.*

Manuals, CC to c<sup>3</sup> in alt., short octaves.  
Pedal, CCC short to A.

## 109. VIENNA.

The organ in the Lutheran Church, at Vienna, was built by Deutschmann, of that city, and has 2 Manuals and Pedal, and 23 stops, of which the following is a list :—

*Great, 9 Stops.*

1. Principal .....	8 feet.	6. Quint .....	2½ feet.
2. Gamba .....	8 feet.	7. Super-octave .....	2 feet.
3. Flöte .....	8 feet.	8. Mixture, IV ranks.	
4. Octave .....	4 feet.	9. { Hautbois Discant } .....	8 feet.
5. Fugara .....	4 feet.	9. { Fagotto, Bass } .....	

*Choir, 6 Stops.*

10. Coppel .....	8 feet.	13. Octave .....	2 feet.
11. Principal .....	4 feet.	14. Super-octave .....	1 foot.
12. Dulciana .....	4 feet.	15. Vox humana .....	8 feet tone.

*Pedal, 8 Stops.*

16. Bourdon, open .....	16 feet.	20. Octave .....	8 feet.
17. Sub-bass .....	16 feet tone.	21. Octave .....	4 feet.
18. Principal .....	8 feet.	22. Posaune .....	16 feet.
19. Violoncello .....	8 feet.	23. Trompette .....	8 feet.

*Accessory Stops, &c.*

1. Choir to Great.
2. Tremulant to Choir.

*Compass.*

Manuals, CC to d<sup>3</sup> in alt.

Pedal CCC to A.



## 110. VIENNA.

The organ in the Church of the Minorites, at Vienna, which is a very old one, has lately been renovated by Deutschmann of that city. It has two Manuals and Pedal, and 24 stops, of which the following is a list :—

*Great, 10 Stops.*

1. Principal .....	8 feet.	6. Nachthorn .....	4 feet.
2. Quintaton .....	8 feet tone.	7. Quint .....	2 $\frac{3}{4}$ feet.
3. Waldflöte .....	8 feet.	8. Super-octave .....	2 feet.
4. Octave .....	4 feet.	9. Mixture, V ranks.	
5. Rohrflöte .....	4 feet tone.	10. Cymbale, II ranks.	

*Choir, 8 Stops.*

11. Principal .....	8 feet.	15. Flöte .....	4 feet.
12. Coppel .....	8 feet.	16. Octave .....	2 feet.
13. Salicional .....	8 feet.	17. Quint .....	1 $\frac{1}{2}$ foot.
14. Principal .....	4 feet.	18. Super-octave .....	1 foot.

*Pedal, 6 Stops.*

19. Coppel .....	16 feet.	22. Octave .....	8 feet.
20. Violon .....	16 feet.	23. Quint .....	5 $\frac{1}{3}$ feet.
21. Principal .....	8 feet.	24. Cornett, III ranks.	

*Accessory Stops.*

1. Choir to Great.

2. Great to Pedal.

*Compass.*Manuals, CC short to f<sup>3</sup> in alt.

Pedal, CCC short to A.

## 111. VIENNA.

The organ in St. Peter's Church is a very old instrument. It has 30 stops\* 3 Manuals, and Pedal of 6 stops. There are no reeds in the organ, and the Mixtures are harsh ; but the 16, 8, and 4 feet stops are good. The following is a specification of the stops :—

*Great, 12 Stops.*

1. Principal .....	8 feet.	7. Gemshorn .....	4 feet.
2. Coppel .....	8 feet.	8. Nachthorn .....	4 feet.
3. Gamba .....	8 feet.	9. Fugara .....	4 feet.
4. Salicional .....	8 feet.	10. Quint .....	2 $\frac{3}{4}$ feet.
5. Quintaton .....	8 feet tone.	11. Octave .....	2 feet.
6. Octave .....	4 feet.	12. Mixture, VI ranks.	

*Echo, 8 Stops.*

13. Coppel .....	8 feet.	17. Flageolet .....	2 feet.
14. Principal .....	4 feet.	18. Quint .....	1 $\frac{1}{2}$ foot.
15. Flöte .....	4 feet.	19. Octave .....	1 foot.
16. Octave .....	2 feet.	20. Mixture, IV ranks.	

*Choir, 4 Stops.*

21. Coppel .....	8 feet.	23. Flöte .....	4 feet.
22. Principal .....	4 feet.	24. Octave .....	2 feet.

*Pedal, 6 Stops.*

25. Coppel .....	16 feet.	28. Octave .....	8 feet.
26. Sub-bass .....	16 feet tone.	29. Octave .....	4 feet.
27. Principal .....	8 feet.	30. Cornett, IV ranks.	

*Compass.*Compass of Manuals, CC short to c<sup>3</sup> in alt.

Compass of Pedal, CCC short to A.

## 112. FREIBURG, IN SWITZERLAND.

In the Cathedral Church of St. Nicholas, at Freiburg, in Switzerland, is a particularly fine organ, built by Aloise Moser in 1834. It has 4 Manuals, 2 Pedals, 61 stops, and 4,165 pipes. The draw-stops do not operate in the usual way, *i.e.*, forwards, but they slide to the right and left. The case is of dark walnut-tree wood, very elaborately ornamented with gilded carved work. The Vox humana in the Echo is described as being a singularly successful stop. The following is a list of the contents of this admirable instrument :—

*Great, 16 Stops.*

1. Montre .....	16 feet.	9. Doublette .....	2 feet.
2. Bourdon .....	16 feet tone.	10. Fourniture, VI and VII ranks.	
3. Octave .....	8 feet.	11. Cymbale, III ranks .....	2 feet.
4. Principal .....	8 feet.	12. Scharf, VIII ranks.....	2 feet.
5. Bourdon .....	8 feet.	13. Petit Cornett, III ranks.	
6. Gamba .....	8 feet.	14. Grand Cornett, a reed ..	16 feet.
7. Prestant .....	4 feet.	15. Trombone .....	8 feet.
8. Dulcian .....	4 feet.	16. Clarion.....	4 feet.

*Choir, 14 Stops.*

17. Quintadena .....	16 feet tone.	24. Flûte à cheminée .....	4 feet tone.
18. Principal .....	8 feet.	25. Nazard .....	2 feet.
19. Principal .....	8 feet.	26. Doublette .....	2 feet.
20. Gamba .....	8 feet.	27. Flageolet .....	1 foot.
21. Flute Douce.. ..	8 feet.	28. Fourniture, IV and V ranks	2 feet.
22. Octave .....	4 feet.	29. Cornett, V-ranks .....	8 feet.
23. Flute .....	4 feet.	30. Trompette .....	8 feet.

*Positif, 12 Stops.*

31. Montre .....	8 feet.	37. Flûte bouchée.....	4 feet.
32. Bourdon .....	8 feet tone.	38. Dulcian .....	4 feet.
33. Viola .....	8 feet.	39. Quintflote .....	2½ feet.
34. Salicional .....	8 feet.	40. Flageolet .....	2 feet.
35. Prestant.. ..	4 feet.	41. Cornett, V ranks.	
36. Calcan .....	4 feet.	42. Cromorne.....	8 feet tone.

*Echo, 8 Stops.*

43. Montre .....	8 feet.	47. Quint Flute.....	4 feet.
44. Bourdon .....	8 feet tone.	48. Flageolet .....	2 feet.
45. Flute .....	8 feet.	49. Vox humana .....	8 feet.
46. Salicional .....	8 feet.	50. Cornett .....	8 feet.

*Great Pedal, 6 Stops.*

51. Bass Bourdon .....	32 feet tone.	54. Prestant .....	4 feet.
52. Sub-bass .....	16 feet.	55. Bombarde .....	16 feet.
53. Octave .....	8 feet.	56. Trombone .....	8 feet.

*Choir Pedal, 5 Stops.*

57. Montre .....	16 feet.	60. Prestant .....	4 feet.
58. Principal .....	8 feet.	61. Trompette .....	8 feet.
59. Flute .....	8 feet tone.		

*Accessory Stops, &c.*

1. Choir to Great.	3. Tremulant Great.
2. Great to Pedal.	4. Tremulant Echo.

*Compass.*Manuals, CC to f<sup>3</sup> in alt.

Pedals, CCC to tenor c.

## 113. HANOVER.

The organ in the Market Church at Hanover is a very fine instrument, the work of Herr Meyer. It contains 47 sounding stops, three Manuals, and a separate Pedal. The following is a list of the stops of this organ :—

*Great, 15 Stops.*

1. Principal, in front .....	16 feet.	9. Octave .....	4 feet.
2. Bourdon .....	16 feet.	10. Rohrflöte .....	4 feet.
3. Principal .....	8 feet.	11. Octave .....	2 feet.
4. Gemshorn .....	8 feet.	12. Mixture, V ranks.	
5. Gamba .....	8 feet.	13. Cornett, IV ranks.	
6. Doppelflöte .....	8 feet.	14. Trompette .....	16 feet.
7. Rohrflöte .....	8 feet.	15. Trompette .....	8 feet.
8. Quint .....	5½ feet.		

*Choir, 12 Stops.*

16. Bourdon .....	16 feet tone.	22. Querflöte .....	4 feet.
17. Principal .....	8 feet.	23. Nasat .....	2½ feet.
18. Gedact .....	8 feet tone.	24. Octave .....	2 feet.
19. Quintaton .....	8 feet.	25. Mixture, III ranks.	
20. Octave .....	4 feet.	26. Dulcian .....	16 feet.
21. Quintaton .....	4 feet.	27. Oboe .....	8 feet.

*Swell, 6 Stops.*

28. Geigen Principal ..	8 feet.	31. Salamine .....	4 feet.
29. Salicional .....	8 feet.	32. Waldflöte .....	2 feet.
30. Gedact .....	8 feet.	33. Æoline .....	8 feet.

*Pedal, 14 Stops.*

34. Principal .....	16 feet.	41. Octave .....	4 feet.
35. Violon .....	16 feet.	42. Flöte .....	2 feet.
36. Sub-bass .....	16 feet tone.	43. Mixture, III ranks.	
37. Quint .....	10½ feet tone.	44. Posaune ..	32 feet.
38. Principal .....	8 feet.	45. Posaune ..	16 feet.
39. Violon .....	8 feet.	46. Trompette ..	8 feet.
40. Bourdon .....	8 feet.	47. Trompette ..	4 feet.

*Accessories.*

10 Bellows :—6 for Manuals ; 4 for Pedal Organ.	Forte Pedal and Piano Pedal ; the latter leaves stops Nos. 35, 36, 39, and 40 in operation.
4 Wind-trunk valves.	

## 114. HANOVER.

The organ in the Chapel Royal at Hanover was made by Meyer, and contains the following 40 stops :—

*Great, 13 Stops.*

1. Bourdon .....	16 feet tone.	8. Flöte .....	4 feet.
2. Principal .....	8 feet.	9. Quint ..	2½ feet.
3. Gemshorn ..	8 feet.	10. Octave .....	2 feet.
4. Gamba .....	8 feet.	11. Mixture, V ranks.	
5. Rohrflöte .....	8 feet tone.	12. Trompette .....	16 feet.
6. Quintaton ..	8 feet.	13. Trompette ..	8 feet.
7. Octave .....	4 feet.		

*Choir, 10 Stops.*

14. Quintaton .....	16 feet tone.	19. Doppelflöte .....	4 feet.
15. Principal .....	8 feet.	20. Nasat .....	2½ feet.
16. Gamba .....	8 feet.	21. Octave .....	2 feet.
17. Rohrflöte ..	8 feet.	22. Mixture, III ranks.	
18. Octave .....	4 feet.	23. Oboe .....	8 feet.

*Swell, 7 Stops.*

24. Geigen Principal .....	8 feet.	28. Spitzflöte .....	4 feet.
25. Salicional .....	8 feet.	29. Waldflöte .....	2 feet.
26. Gedact .....	8 feet tone.	30. Oboe .....	8 feet.
27. Octave .....	4 feet.		

*Pedal, 10 Stops.*

31. Principal .....	16 feet.	36. Octave .....	4 feet.
32. Sub-bass .....	16 feet tone.	37. Posaune .....	16 feet.
33. Quint .....	10 $\frac{3}{4}$ feet tone.	38. Trompette .....	8 feet.
34. Octave .....	8 feet.	39. Trompette .....	4 feet.
35. Bourdon .....	8 feet tone.	40. Cornett .....	2 feet.

*Accessories.*

8 Bellows ; 5 for the Manuals, 3 for the Pedals.	4 Wind valves ; Forte and Piano Pedals for the Pedal Organ.
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## 115. HANOVER.

The new organ in St. John's, Hanover, contains 44 stops, and, like the two preceding, was built by Meyer, who is a resident of the town :—

*Great, 15 Stops.*

1. Principal .....	16 feet.	9. Octave .....	4 feet.
2. Bourdon .....	16 feet tone.	10. Gemshorn .....	4 feet.
3. Principal .....	8 feet.	11. Octave .....	2 feet.
4. Spitzflöte .....	8 feet.	12. Mixture, V ranks.	
5. Rohrflöte .....	8 feet tone.	13. Cornett, IV ranks.	
6. Hohlflöte .....	8 feet.	14. Trompette .....	16 feet.
7. Quintaton .....	8 feet tone.	15. Trompette .....	8 feet.
8. Quint .....	5 $\frac{1}{4}$ feet tone.		

*Choir, 11 Stops.*

16. Quintaton .....	16 feet tone.	22. Flöte .....	4 feet.
17. Principal .....	8 feet.	23. Quint .....	2 $\frac{3}{4}$ feet.
18. Gamba .....	8 feet.	24. Octave .....	2 feet.
19. Gedact .....	8 feet tone.	25. Mixture, IV ranks.	
20. Doppelflöte .....	8 feet.	26. Dulcian .....	16 feet.
21. Octave .....	4 feet.		

*Swell, 6 Stops.*

27. Geigen Principal .....	8 feet.	30. Salamine .....	8 feet.
28. Salicional .....	8 feet.	31. Spitzflöte .....	4 feet.
29. Gedact .....	8 feet tone.	32. Hohlflöte .....	4 feet.

*Pedal, 12 Stops.*

33. Principal .....	16 feet.	39. Bourdon .....	8 feet tone.
34. Violon .....	16 feet.	40. Octave .....	4 feet.
35. Sub-bass .....	16 feet tone.	41. Posaune .....	32 feet.
36. Quint .....	10 $\frac{3}{4}$ feet tone.	42. Posaune .....	16 feet.
37. Principal .....	8 feet.	43. Trompette .....	8 feet.
38. Violoncello .....	8 feet.	44. Trompette .....	4 feet.

## 116. ULM.

The Cathedral at Ulm has, for upwards of two centuries and a half, enjoyed the high reputation of possessing an organ ranking among the finest specimens of its kind and time, not only in regard to excellence, but also as to completeness. So far back as the year 1591 it was furnished with an instrument, then quite new, reputed to have been the united work of three distinct firms ; Andre Schneider, of Silicie, Conrad Schott, of Suabe, and Pierre Grunwalder, of Nuremberg, being mentioned as having taken part in its construction. This joint production, after being repaired, in 1630, by Jean Meyer, the builder of the organ recently burnt in the cathedral at Frankfort, yielded at length to the ravages of time, and was, in the year 1730, replaced by a new 32-foot organ, made by the Schmahls, father and son, which contained 45 stops, 2 Manuals and Pedal, and 16 bellows. The largest

pipe in this instrument measured 13 inches in diameter, and the entire work was enclosed in an elaborate case, measuring 93 feet in height and 28 feet in width. In the course of time this organ, also, like its predecessor, became decayed and infirm, and the erection of a new one in its place was some years since accordingly agreed upon. The execution of this great work was entrusted to Walcker, of Ludwigsburg, who, with Schulze, of Paulinzelle, near Erfurt, shares the highest reputation among the present generation of German organ-builders, and also the most extensive and important practice. Walcker's first specification was prepared in the year 1838; a second one, for an organ of 80 stops, was drawn out in 1845, and a third one in 1846, for an instrument of 94 stops. It was not, however, until the 11th of January, 1849, that the agreement of Mr. Walcker was finally made out and signed, which was then for an instrument to contain 100 stops, 4 Manuals, and 2 Pedals, 6,564 pipes, 18 bellows, &c. The removal of the old organ occupied the period between the 22nd of January and the 17th of March, 1849; and the erection and completion of the new one in the church from May, 1854, to October 13th, 1856, on which latter day it was formally inaugurated with a concert of organ music.

This new Ulm organ contains, as already stated, 100 stops, which are appropriated in the following manner, viz. :—

	Stops.
To the First Manual (Great Organ) .....	30
„ Second Manual (Choir Organ) .....	23
„ Third Manual (Swell Organ) .....	16
„ First (or loud) Pedal .....	24
„ Second (or soft) Pedal .....	7
	<hr/> 100

The scheme of the stops stands thus :—

*First Manual, 30 Stops.*

1. Untersatz to tenor c key, the CCC pipe .....	32 feet.	17. Octave .....	2 feet.
2. Principal .....	16 feet.	18. Waldflöte .....	2 feet.
3. Tibia major .....	16 feet.	19. Octave .....	1 foot.
4. Viol di Gamba .....	16 feet.	20. Sesquialtera, II ranks ..	2½ feet.
5. Octave .....	8 feet.	21. Cornett, V ranks, all through .....	10½ feet.
6. Gemshorn .....	8 feet.	22. Mixture, V ranks .....	4 feet.
7. Gedact .....	8 feet.	23. Mixture, V ranks .....	2½ feet.
8. Salicional .....	8 feet.	24. Scharf, V ranks .....	2 feet.
9. Flöte (open wood) .....	8 feet.	*25. Contra fagotto .....	16 feet.
10. Viol di Gamba .....	8 feet.	*26. Fagotto, wood, small ..	16 feet.
11. Quint .....	5½ feet.	*27. Posaune .....	8 feet.
12. Octave .....	4 feet.	*28. Trompette .....	8 feet.
13. Flöte .....	4 feet.	*29. Clarine .....	4 feet.
14. Rohrflöte .....	4 feet.	*30. Clarinett, flue pipes in the treble .....	2 feet.
15. Fugara .....	4 feet.		
16. Terz .....	3½ feet.		

*Second Manual, 23 Stops.*

31. Salicional, lowest octave wood .....	16 feet.	42. Viola .....	4 feet.
32. Gedact .....	16 feet.	43. Traverso flute .....	4 feet.
33. Principal .....	8 feet.	44. Klein Gedact .....	4 feet.
34. Flöte .....	8 feet.	45. Octave .....	2 feet.
35. Piffaro, small scale with beard and ears .....	8 feet.	46. Piccolo, metal .....	2 feet.
36. Dolce .....	8 feet.	47. Mixture, VIII ranks .....	2½ feet.
37. Gedact .....	8 feet.	48. Cymbale, III ranks .....	1 foot.
38. Quintaton .....	8 feet.	*49. Posaune .....	8 feet.
39. Quintflöte .....	5½ feet.	*50. Trompette .....	8 feet.
40. Octave .....	4 feet.	*51. Fagotto .....	8 feet.
41. Spitzflöte .....	4 feet.	*52. Clarinett .....	8 feet.
		*53. Corno .....	4 feet.

*Third Manual, 16 Stops.*

54. Bourdon .....	16 feet.	62. Dolce .....	4 feet.
55. Principal .....	8 feet.	63. Nazard .....	2½ feet.
56. Spitzflöte .....	8 feet.	64. Octave .....	2 feet.
57. Piffaro .....	8 feet.	65. Flautino .....	2 feet.
58. Harmonica .....	8 feet.	66. Mixture, V ranks .....	2 feet.
59. Gedact .....	8 feet.	*67. Vox humana .....	8 feet.
60. Octave .....	4 feet.	68. Phyzharmonica .....	8 feet.
61. Gemshorn .....	4 feet.	*69. Oboe .....	4 feet.

*Fourth Manual, 13 Reed Stops.*

*Belonging to the other Manuals, which borrowed stops are distinguished by an asterisk on their respective Manuals.*

25. Contra fagotto .....	16 feet.	52. Clarinett .....	8 feet.
26. Fagotto .....	16 feet.	67. Vox humana .....	8 feet.
27. Posaune .....	8 feet.	29. Clarine .....	4 feet.
28. Trompette .....	8 feet.	53. Corno .....	4 feet.
49. Posaune .....	8 feet.	69. Oboe .....	4 feet.
50. Trompette .....	8 feet.	30. Clamett .....	2 feet.
51. Fagotto .....	8 feet.		

*First Pedal, 24 Stops.*

70. Principal Bass, in front ..	32 feet.	82. Terz .....	6½ feet.
71. Grand Bourdon .....	32 feet.	83. Quint .....	5½ feet.
72. Octave Bass .....	16 feet.	84. Octave .....	4 feet.
73. Principal Bass .....	16 feet.	85. Cornett, V ranks .....	4 feet.
74. Violon Bass .....	16 feet.	86. Bombardon, free reed ..	32 feet.
75. Bourdon .....	16 feet.	87. Posaune .....	16 feet.
76. Sub-bass .....	16 feet.	88. Fagotto .....	16 feet.
77. Quint .....	10½ feet.	89. Posaune .....	8 feet.
78. Octave .....	8 feet.	90. Trompette .....	8 feet.
79. Flöte Bass .....	8 feet.	91. Clarine .....	4 feet.
80. Violoncello .....	8 feet.	92. Corno-basso .....	4 feet.
81. Viola .....	8 feet.	93. Cornettino .....	2 feet.

*Second Pedal, 7 Stops.*

94. Violon Bass .....	16 feet.	98. Hohlflöte .....	2 feet.
95. Gedact Bass .....	16 feet.	99. Serpent .....	16 feet.
96. Flauto .....	8 feet.	100. Basset horn .....	8 feet.
97. Flauto .....	4 feet.		

*Couplers.*

- |                              |                                    |
|------------------------------|------------------------------------|
| 1. First and second Manual.  | 6. Fourth and first Manual.        |
| 2. Second and third Manual.  | 7. First Manual and first Pedal.   |
| 3. First and third Manual.   | 8. Second Manual and second Pedal. |
| 4. Fourth and third Manual.  | 9. First and second Pedal.         |
| 5. Fourth and second Manual. |                                    |

Crescendo to the Phyzharmonica.

Crescendo and Decrescendo to the entire work.

Among the most striking features of this specification must be classed the great amount and variety of 16, 8, and 4 feet flue-work therein included. Although not comprehending everything—the French Harmonic Flute and the English Dulciana class of stops being absent—yet the double, unison, and octave flue stops on the Manuals present, on the whole, facilities for tone-colouring such as are to be found scarcely in any other organ in existence. Another point worthy of attention is the composition of the chorus stops. The size, which is given, or the longest rank of each of those in the Great organ, clearly indicates that the mixtures are not simply composed of small ranks of pipes, which would do little more than add to the general din of the instrument, but are so compounded that while each one is qualified to do its individual share in imparting brightness to the general effect, each can also do its individual share in toning down that brightness by strengthening and giving additional roundness to some of the sounds

which lie below. The Great organ, too, contains, as do all the modern first-class instruments in Germany, a stop of 32-feet tone (Untersatz), while the great Cornett includes the Mutation aliquots of the pitch.

The internal, mechanical, and other arrangements present many peculiarities and excellencies which are worth noting. The bellows are formed after the fashion of gasometers; that is to say, they each consist of an upper cylinder working inside a lower. By this plan side-ribs are done away with, and the strength of the wind produced is absolutely equal at all times. Every stop in the organ is placed on a little sound-board of its own, the object of which is to prevent the possibility of any stops robbing others of wind when they are all in use. Each little sound-board is furnished with as many pallets as there are keys on the controlling clavier, and the pallets, which may be familiarly described as being of mushroom shape, are arranged vertically, and operate by being lifted up instead of drawn down. To prevent the touch being disagreeably heavy from the concentration of so many pallets on each key, Barker's pneumatic lever is introduced, which removes all unpleasant resistance from the finger. The pipes of most of the stops are placed in their natural or semitonal order, that is to say, with the largest pipe to the extreme left, and the smallest to the extreme right, Walcker giving the preference to this arrangement over all others on acoustical grounds. As there are numerous small sound-boards, instead of one or more large ones, slides, which are only required for securing the use of the stops independently, are unnecessary, and the stops are each brought into play, or the reverse, by opening or closing a ventila at one end of the little sound-board. One great merit of this separate sound-board system consists in the facility which it offers for borrowing stops from one Manual for the use of another. In the present instance no less than *thirteen* reed stops, collected from the three Manuals, are concentrated on a fourth, thus forming what the French term a "Bombarde Organ;" and all this is accomplished mainly by the introduction of an additional ventila placed at the second end of the sound-board of each of the borrowed stops.

One of the most effective and important novelties in this organ is the "Crescendo and Decrescendo" to the entire work. This movement draws every stop in the entire instrument in the best succession, so that a perfectly gradual crescendo can be produced from the most delicate *ppanissimo* up to the most overwhelming *fortissimo*. The movement can, moreover, be checked at any stage, and there allowed to remain, or it can be reversed, so as to produce a partial piano, then advanced again, and so on. The apparatus itself seems to be the most complete and simple for the purpose that has yet been devised. It is worked by a wheel, of which there are two, one placed on each side of the pedal claviers, and can, therefore, be controlled by either foot.

The instrument stands at the west end of the church, the most favourable place for it in one respect, but so far back as to be in the tower (with its front just under the tower arch), which is somewhat damaging to its effect. The cost of the organ was 28,000 florins, or about £2,240 sterling.

#### 117. FRANCE.

The organ in the Cathedral of Carcassauue was built by Cavallé-Coll, and contains 40 sounding stops, of which the following is a list :—

##### *Grand Orgue.*

1. Montre .....	16 feet.	5. Flute harmonique . . . . .	8 feet.
2. Bourdon .....	16 feet.	6. Viole de Gamba . . . . .	8 feet.
3. Montre .....	8 feet.	7. Prestant .....	4 feet.
4. Bourdon .....	8 feet.	8. Viole d'amour .....	4 feet.

*Jeux de Combinaison.*

9. Octave .....	4 feet.	13. Cymbale, III ranks.	
10. Quint .....	3 feet.	14. Bombarde.....	16 feet.
11. Doublette .....	2 feet.	15. Trompette .....	8 feet.
12. Fourniture, IV ranks.....		16. Clarion .....	4 feet.

*Positif, 10 Stops.*

17. Montre .....	8 feet.	22. Quint .....	3 feet.
18. Bourdon.....	8 feet.	23. Doublette .....	2 feet.
19. Salicional .....	8 feet.	24. Plein Jeu, III ranks.	
20. Prestant .....	4 feet.	25. Trompette . . . . .	8 feet.
21. Flute Douce .....	4 feet.	26. Cromorne .....	8 feet.

*Recit. Expressif, 4 Stops.*

27. Flute Harmonic .. . . .	8 feet.	29. Viole d'amour .....	8 feet.
28. Flute Douce .....	8 feet.	30. Flute Octaviane .....	4 feet.

*Jeux de Combinaison.*

31. Octavin .....	2 feet.	33. Basson et Hautbois ....	8 feet.
32. Trompette Harmonic .....	8 feet.	34. Voix humaine .....	8 feet.

*Clavier Pedales.*

35. Contre-bass .....	16 feet.	37. Octave .. . . .	4 feet.
36. Basse .....	8 feet.		

*Jeux de Combinaison.*

38. Bombarde .....	16 feet.	40. Clarion.....	4 feet.
39. Trompette .....	8 feet.		

Eleven Pedals de Combinaison, &amp;c.

## 118. PARIS, NOTRE-DAME-DE-LORETTE.

This organ was constructed, in 1836, by Cavaillé-Coll, father and son, and is the first instrument built by them after their establishment in Paris. It has 3 Manuals, a separate Pedal of 6 stops, and 47 sounding stops, of which the following is a list :—

*Great Organ, 19 Stops; Compass, CC to f<sup>3</sup>, 54 Notes.*

1. Montre, the bass of wood	16 feet.	12. Grand Cornet, commenc-	
2. Bourdon .....	16 feet tone.	ing at f, VII ranks.	
3. Montre .. . . .	8 feet.	13. Gross Fourniture, IV ranks.	
4. Salicional .....	8 feet.	14. Petite Fourniture, IV ranks.	
5. Bourdon. . . . .	8 feet tone.	15. Cymbale, IV ranks.	
6. Prestant .....	4 feet.	16. Bombarde, the Bass octave	
7. Flute .....	4 feet.	in unison with the Trom-	
8. Dessus de Flûte conique...	4 feet.	pette .....	16 feet.
9. Nazard .....	2 $\frac{3}{4}$ feet.	17. Trompette .....	8 feet.
10. Quatre de Nazard .....	2 feet.	18. Clarion .....	4 feet.
11. Doublette .....	2 feet.	19. Voix humaine .....	8 feet tone.

*Choir Organ, 12 Stops; Compass, CC to f<sup>3</sup>, 54 Notes.*

20. Bourdon.....	8 feet tone.	26. Tierce .....	1 $\frac{3}{4}$ foot.
21. Flute .....	8 feet.	27. Plein Jeu, V ranks.	
22. Prestant .....	4 feet.	28. Cornet, V ranks.	
23. Flute .....	4 feet.	29. Trompette .....	8 feet.
24. Nazard .....	2 $\frac{3}{4}$ feet.	30. Clarion .....	4 feet.
25. Doublette .....	2 feet.	31. Bassoon .....	8 feet.

*Swell, 10 Stops; Compass, Tenor f to f<sup>3</sup>, 37 Notes.*

32. Bourdon.....	8 feet tone.	37. Cornet, III ranks.	
33. Flute Traversière .....	8 feet.	38. Trompette .....	8 feet.
34. Flute .....	4 feet.	39. Hautbois .....	8 feet.
35. Flute Octaviane .....	4 feet.	40. Voix humaine .....	8 feet tone.
36. Flageolet .....	2 feet.	41. Cor Anglais .....	8 feet.



*Pedal, 6 Stops; Compass, CCC to Tenor c, 25 Notes.*

42. Flute ouverte.....	16 feet.	45. Trompette .....	16 feet.
43. Flute .....	8 feet.	46. Trompette .....	8 feet.
44. Flute .....	4 feet.	47. Clarion .....	4 feet.

## 119. PARIS, SAINT GENEVIEVE.

The organ in this Church was built by Cavaillé-Coll in 1852-3, and contains the 21 sounding stops mentioned below :—

*Great, 9 Stops; Compass, CC to f<sup>3</sup>, 54 Notes.*

1. Bourdon.....	16 feet tone.	6. Gamba .....	4 feet.
2. Montre .....	8 feet.	7. Doublette .....	2 feet.
3. Salicional .....	8 feet.	8. Trompette .....	8 feet.
4. Bourdon.....	8 feet tone.	9. Clarion .....	4 feet.
5. Prestant.....	4 feet.		

*Swell, 8 Stops; Compass, Tenor c to f<sup>3</sup>, 42 Notes.*

10. Flute harmonic.....	8 feet.	14. Octavin.....	2 feet.
11. Bourdon.. ..	8 feet.	15. Trompette .....	8 feet.
12. Viole di Gamba .....	8 feet.	16. Cor Anglais et Hautboy..	8 feet.
13. Flute Octaviant .....	4 feet.	17. Voix humaine .....	8 feet tone.

*Pedal, 4 Stops; Compass, CCC to Gamut g, 20 Notes.*

18. Sub-bass.....	16 feet.	20. Trompette .....	8 feet.
19. Bass .....	8 feet.	21. Clarion .....	4 feet.

## 120. ELBERFELD.

The new Church in Elberfeld contains a very fine new organ built by J. F. Schulze and Son, in 1858. It has three Manuals and Pedals, and the stops mentioned below :—

*Great Organ, 11 Stops.*

1. Principal .....	16 feet.	7. Gemshorn .....	4 feet.
2. Bourdon .....	16 feet tone.	8. } Twelfth .....	2½ feet.
3. Principal .....	8 feet.	} Fifteenth .....	2 feet.
4. Viole di Gamba .....	8 feet.	9. Mixture, V ranks .....	2 feet.
5. Hohlflöte .....	8 feet.	10. Cornett, III ranks .....	2½ feet.
6. Octave .....	4 feet.	11. Trompette .....	8 feet.

*Choir Organ, 9 Stops.*

12. Lieblich Bourdon. ....	16 feet tone.	17. Rohrflöte .....	4 feet tone.
13. Geigen Principal .....	8 feet.	18. Nazard .....	2½ feet.
14. Gemshorn .....	8 feet.	19. Flautino .....	2 feet.
15. Rohrflöte .....	8 feet tone.	20. Oboe. ....	8 feet.
16. Octave .....	4 feet.		

*Third Clavier.*

21. Lieblich Gedact .....	8 feet tone.	24. Flauto Traverso .....	8 feet.
22. Harmonica .....	8 feet.	25. Viola d'amour .....	4 feet.
23. Vox Angelica .....	8 feet.	26. Flute Harmonic .....	4 feet.

*Pedal.*

27. Violon .....	16 feet.	31. Gedact-bass .....	8 feet tone.
28. Sub-bass .....	16 feet tone.	32. Octave .....	4 feet.
29. Quint .....	10½ feet tone.	33. Posaune .....	16 feet.
30. Violoncello .....	8 feet.	34. Trompette .....	8 feet.

## 121. BASLE.

The fine new organ in the Minster Church at Basle is the work of Frederick Haas, and contains 60 sounding stops, of which the following is a list :—

*Great, 17 Stops.*

1. Principal, Eng. tin, in front	16 feet.	8. Quint, wood	5½ feet tone.
2. Bordun, wood, double mouths, from tenor c pipe	16 feet tone.	9. Octave, Eng. tin	4 feet.
3. Octave, Eng. tin	8 feet.	10. Gemshorn, probe tin	4 feet.
4. Gemshorn, probe tin	8 feet.	11. Hohlflöte, wood	4 feet.
5. Viol di Gamba, Eng. tin	8 feet.	12. Quint, probe tin	2½ feet.
6. Bordun, wood, double mouths, from tenor c pipe	8 feet tone.	13. Waldflöte, probe tin	2 feet.
7. Flauto, wood, double mouths, from fiddle g pipe	8 feet.	14. Mixture, probe tin, V ranks	4 feet.
		15. Cornet, probe tin, III ranks	5½, 4, & 3½ ft.
		16. Fagotto	16 feet.
		17. Trompette, tin	8 feet.

*Choir, 15 Stops.*

18. Quintaton	16 feet tone.	26. Fugara	4 feet.
19. Principal	8 feet.	27. Klein Gedact	4 feet tone.
20. Bordun	8 feet tone.	28. Quinte	2½ feet.
21. Viola d'amour	8 feet.	29. Octave	2 feet.
22. Salicional	8 feet.	30. Mixture, IV ranks	2 feet.
23. Dolce	8 feet.	31. Cornet, V ranks.	
24. Octave	4 feet.	32. Fagott and Clarinett	8 feet.
25. Flauto Traverso	4 feet.		

*Swell, 14 Stops.*

33. Lieblich Bordun	16 feet tone.	40. Flûte d'amour	4 feet.
34. Spitzflöte	8 feet.	41. Quinte	2½ feet.
35. Harmonika	8 feet.	42. Flautino	2 feet.
36. Flauto Traverso	8 feet.	43. Physzharmonika	16 feet.
37. Still Gedact	8 feet tone.	44. Physzharmonika	8 feet.
38. Spitzflöte	4 feet.	45. Vox humana	8 feet.
39. Dolcissimo	4 feet.	46. Vox humana	8 feet.

*Pedal, 14 Stops.*

47. Untersatz, open, wood	32 feet.	54. Violoncello, proof tin	8 feet.
48. Octave Bass, wood	16 feet.	55. Flöte, wood	8 feet.
49. Violon Bass, Eng. tin	16 feet.	56. Quintflöte, wood	5½ feet.
50. Violon Bass, wood	16 feet.	57. Octave	4 feet.
51. Sub-bass, wood	16 feet tone.	58. Posaune	16 feet.
52. Quinte, stopped wood	10½ feet.	59. Trompette	8 feet.
53. Octave Bass, proof tin	8 feet.	60. Clarine	4 feet.

*Accessory Stops, &c.*

Coupler, Choir to Great.  
Coupler, Great to Pedal.  
Calcantenwecker.

Registerzug for the Pedal.  
Registerzug for the Great Manual.  
Registerzug for the Choir Manual.

## 122. QUITTELSDORF.

The organ in the village Church of Quittelsdorf, near Paulinzelle, was built by Andreas Schulze, in the year 1791. It has 21 sounding stops, two Manuals and separate Pedal.

*Great Organ, 10 Stops.*

1. Bordun	16 feet.	6. Octave	4 feet.
2. Principal	8 feet.	7. Vogelflöte	4 feet.
3. Viol di Gamba	8 feet.	8. Sesquialtera, II ranks	12, 17, 2½ & 1½ ft
4. Gedact	8 feet.	9. Mixture, VI ranks	2 feet.
5. Hohlflöte	8 feet.	10. Cimbél, IV ranks	

*Choir Organ, 7 Stops.*

11. Lieblich Gedact.....	8 feet.	15. Rohrflöte .....	4 feet.
12. Quintaton .....	8 feet.	16. Waldflöte .....	2 feet.
13. Flauto Traverso..	8 feet.	17. Scharf, III ranks.....	2 feet.
14. Principal.....	4 feet.		

*Pedal, 4 Stops.*

18. Violon.....	16 feet.	20. Octave Bass .....	8 feet.
19. Sub-bass.....	16 feet.	21. Posaun Bass.....	16 feet.

*Compass.*

Pedal CCC to tenor c.

Manual CC (no C $\sharp$ ) to c (4 octaves).*Accessory Stops, Couplers, &c.*Manual to Pedal.  
Choir to Great.Accord-glocks.  
Tremulant.

## 123. MILBEITZ.

The organ in the village Church of Milbeitz, near Paulinzelle, was made by Andreas Schulze, the grandfather of the present organ-builders, and contains the 21 sounding stops mentioned below:—

*Great Organ, 9 Stops.*

1. Bordun . . . . .	16 feet tone.	6. Octave.....	4 feet.
2. Principal. . . . .	8 feet.	7. Flöte .....	4 feet.
3. Gedact . . . . .	8 feet.	8. Sesquialtera .....	12, 17, 2 $\frac{3}{4}$ & 1 $\frac{3}{4}$ feet.
4. II Hohlflöte .....	8 feet.	9. Mixtur, V ranks.....	2 feet.
5. Gamba .....	8 feet.		

*Choir Organ, 7 Stops.*

10. Lieblich Gedact . . . . .	8 feet tone.	14. Rohrflöte .....	4 feet.
11. Salicet . . . . .	8 feet tone.	15. Quint.....	2 $\frac{3}{4}$ feet.
12. Flauto Traverso . . . . .	8 feet.	16. Octave .....	2 feet.
13. Principal.....	4 feet.		

*Pedal Organ, 5 Stops.*

17. Violon .....	16 feet.	20. Violon .....	8 feet.
18. Sub-bass . . . . .	16 feet.	21. Posaune Bass .....	16 feet.
19. Octave Bass .....	8 feet.		

*Couplers.*

Accord-glocks.

Tremulant.

*Compass.*

Pedal, CCC to tenor c.

Manuals, CC to C $\sharp$  (no CC $\sharp$ ).

## 124. ANGSTADT.

The organ in this Church was built by J. F. Schulze about the year 1838. It contains 21 sounding stops, 2 Manuals, and Pedal. The following is a list of its contents:—

*Great Organ, 8 Stops.*

1. Principal, to middle c key, Bordun below .....	16 feet.	5. Octave.....	4 feet.
2. Principal .....	8 feet.	6. Flöte .....	4 feet.
3. Gambe .....	8 feet.	7. Mixtur, V ranks .....	2 feet.
4. Hohlflöte .....	8 feet.	8. Cymbel, III ranks .....	2 feet.

*Choir Organ, 8 Stops.*

9. Bordun .....	16 feet tone.	13. Salicional .....	4 feet.
10. Principal .....	8 feet.	14. Dolzflöte .....	4 feet.
11. Flauto Traverso .....	8 feet.	15. Octave .....	2 feet.
12. Gedact .....	8 feet.	16. Scharf, III ranks .....	2 feet.

*Pedal Organ, 5 Stops.*

17. Violon .....	16 feet.	20. Octave Bass .....	8 feet.
18. Sub-bass .....	16 feet.	21. Violon .....	8 feet.
19. Principal Bass .....	8 feet.		

2 Couplers.

## 125. LUCERNE.

The organ in the Cathedral at Lucerne, in Switzerland, was built by Geissler, of Salzburg, in the year 1651. It has 48 stops, 3 Manuals, and Pedal of 13 stops, among which is a particularly fine Sub-bass of 32 feet in metal. It is proposed to rebuild this organ very shortly.

Over the Manuals is the following quaint account of the organ :—

## “ORGAN IN THE COLLEGIATE CHURCH AT LUCERNE.”

“This organ is the masterpiece of John Geissler, native of Salzburg. It was commenced and finished in the space of 17 years. The first use made of it dates from 1651, when the son of this famous artist, elected chaplain of this college, was celebrating his first Mass. The whole work consists of 3 Manuals; of a Pedal with two octaves; and 2826 Pipes, composed, for the most part of them, of English pewter. The largest of these measures 2 feet in diameter [Qy.], 37 feet in length, and should contain very easily 1308 French pints of any liquor. The Mixtures of this admirable work may be varied 7 times; and, besides this advantage, there are several registers whereby one may make use of the three Manuals together, or one or two of them separately. This masterpiece was first tried and approved of by four organists belonging to foreign princes, and cost about 12,000 Rhenish florins, a sum which is esteemed very valuable for that time.”

The following is a list of the stops in the Lucerne organ :—

*Great, 12 Stops.*

1. Nachthorn .....	16 feet.	7. Nazard.....	2 $\frac{3}{4}$ feet.
2. Prestant .....	8 feet.	8. Spitzflöte. ....	2 feet.
3. Hohlflöte .....	8 feet.	9. Quintadena .....	2 feet tone.
4. Salicional .....	8 feet.	10. Sesquialtera, V ranks ..	2 $\frac{3}{4}$ feet.
5. Gemshorn .....	4 feet.	11. Trompet .....	8 feet.
6. Quintflöte .....	2 $\frac{3}{4}$ feet tone.	12. Vox humana .....	8 feet.

*Choir, 11 Stops.*

13. Principal .....	8 feet.	19. Mixtur, III ranks.	
14. Hohlflöte .....	8 feet.	20. Cymbel, III ranks.	
15. Quint.....	5 $\frac{1}{2}$ feet.	21. Cornet, V ranks.	
16. Octave .....	4 feet.	22. Schalmey.....	8 feet tone.
17. Quintflöte .....	2 $\frac{3}{4}$ feet tone.	23. Hornlein, a small reed ...	8 feet.
18. Terzflöte .....	1 $\frac{1}{2}$ foot tone.		

*Echo, 12 Stops.*

24. Principal .....	16 feet.	30. Gross-terz .....	3 $\frac{1}{2}$ feet.
25. Octave .....	8 feet.	31. Duodecima ..	2 $\frac{3}{4}$ feet.
26. Solo Principal .....	8 feet.	32. Quintadena ..	2 feet tone.
27. Viola .....	8 feet.	33. Klein-terz .....	1 $\frac{1}{2}$ foot.
28. Quint.....	5 $\frac{1}{2}$ feet.	34. Sesquialtera, IV ranks ...	2 $\frac{3}{4}$ feet.
29. Super-octave .....	4 feet.	35. Mixtur, III ranks.	

*Pedal, 13 Stops.*

36. Sub-bass, metal .....	32 feet.	43. Super-octave .....	4 feet.
37. Bass, metal .....	16 feet.	44. Mixtur, V ranks.	
38. Principal, metal .....	16 feet.	45. Bombarde .....	16 feet.
39. Holz-bass, wood .....	16 feet.	46. Posaune .....	8 feet.
40. Bourdon, wood .....	16 feet tone.	47. Portune .....	4 feet.
41. Octave .....	8 feet.	48. Horn .....	2 feet.
42. Klein Octave .....	8 feet.		

*Accessory Stops, &c.*

1. Echo to Great.	3. Great to Pedal.
2. Choir to Great.	4. Echo to Choir.

*Compass.*

Manuals, CC to  $e^3$  in alt., short octaves. | Pedal. CCC to tenor c, short octaves.

## 126. WINTERTHUR.

The organ in the principal Church at Winterthur, near Zurich, was built partly by Hasse and partly by Moser, of Freiburg. It contains 44 sounding stops, 3 Manuals, and a Pedal of 9 stops. Among the latter is a very fine 32-foot Sub-bass, of wood. The following is a list of the stops:—

*Great, 14 Stops.*

1. Principal .....	16 feet.	8. Octav .....	4 feet.
2. Bourdon .....	16 feet tone.	9. Fugara .....	4 feet.
3. Octav .....	8 feet.	10. Quinte .....	2½ feet.
4. Bourdon .....	8 feet tone.	11. Waldfloete .....	2 feet.
5. Viol di Gamba .....	8 feet.	12. Mixture, V ranks.	
6. Flöte, dopp lab. ....	8 feet.	13. Cornet, V ranks.	
7. Quintflöte .....	5½ feet tone.	14. Trompette .....	8 feet.

*Choir, 11 Stops.*

15. Bourdon .....	16 feet tone.	21. Rohrlöte .....	4 feet tone.
16. Principal .....	8 feet.	22. Flauto Traverso .....	4 feet.
17. Viol di Gamba .....	8 feet.	23. Octave .....	2 feet.
18. Bourdon .....	8 feet tone.	24. Mixture, IV ranks.	
19. Dolce .....	8 feet.	25. { Clarinet Treble }	
20. Gemshorn .....	4 feet.	{ Bassoon Bass }	8 feet.

*Swell, 10 Stops.*

26. Principal .....	8 feet.	31. Spitzflöte .....	4 feet.
27. Lieblich Gedact .....	8 feet tone.	32. Flauto d'amore .....	4 feet.
28. Harmonica .....	8 feet.	33. Flautino .....	2 feet.
29. Salicional .....	8 feet.	34. Physharmonica, free reeds	8 feet.
30. Lieblich-flöte .....	8 feet tone.	35. Vox humana .....	8 feet tone.

*Pedal, 9 Stops.*

36. Sub-bass, wood .....	32 feet.	41. Violoncello .....	8 feet.
37. Octav Bass, wood .....	16 feet.	42. Octav .....	4 feet.
38. Sub-bass, wood .....	16 feet tone.	43. Posaune .....	16 feet.
39. Octav Bass, metal .....	8 feet.	44. Trompette .....	8 feet.
40. Flöte Bass, wood .....	8 feet tone.		

*Accessory Stops, Movements, &c.*

1. Coupler, Choir to Great.	5, 6, 7. Three Wind-trunk Valves.
2. Ditto Swell to Choir.	8. Tremulant to Swell.
3. Ditto Great to Pedal.	9, 10. Two Composition Pedals.
4. Ditto Choir to Pedal.	

*Compass.*

Manuals, CC to  $f^3$  in alt., 54 notes. | Pedal, CCC to tenor c, 25 notes.

## 127. CONSTANCE.

The organ in the Cathedral at Constance, in Switzerland, was originally built in the year 1518, which date appears on the case of the instrument. It stands at the west end of the nave, and has the front pipes richly decorated with diaper and scroll work. The organ has 2 Manuals and Pedal, and 27 sounding stops, of which the following is a list :—

*Great, 11 Stops.*

1. Bourdon .....	16 feet tone.	7. Quinte .....	2½ feet.
2. Principal .....	8 feet.	8. Super-octave .....	2 feet.
3. Viol di Gamba .....	8 feet.	9. Mixtur, VI ranks .....	2 feet.
4. Gedact .....	8 feet tone.	10. Cymbel, IV ranks .....	1 foot.
5. Octave .....	4 feet.	11. Dulcian .....	8 feet.
6. Flote Gedact .....	4 feet tone.		

*Choir, 8 Stops.*

12. Principal .....	8 feet.	16. Octave .....	4 feet.
13. Gemshorn .....	8 feet.	17. Rohrflote .....	4 feet tone.
14. Bourdon .....	8 feet tone.	18. Quinte .....	2½ feet.
15. Salicional .....	8 feet.	19. Mixtur, III ranks .....	2 feet.

*Pedal, 8 Stops.*

20. Principal Bass .....	16 feet.	24. Rausch-quinte, II ranks ..	2½ feet.
21. Nassat Major .....	12 feet tone.	25. Mixtur, IV ranks ..	2 feet.
22. Octave Bass .....	8 feet.	26. Posaune .....	16 feet.
23. Prestant Bass .....	4 feet.	27. Trompette .....	8 feet.

*Accessory Stops.*

1. Choir to Great.
2. Great to Pedal.

*Compass.*

Manuals, CC to f<sup>a</sup> in alt.  
Pedal, CCC to Gamut G.

## 128. STUTGARD.

An organ was erected in the Stiftskirche, at Stuttgart, by Conrad Schott, about the year 1591. The instrument now standing there was built in the year 1737, for the Benedictine Abbey of Zwiefalten, by Martin, of Hayengen, partner of the celebrated organ-builder, Gabler. It has been repaired and enlarged by Walker, of Ludwigsburg, and is a particularly fine instrument. It has 4 Manuals and 2 Pedals, and contains 70 sounding stops, of which the following is a list :—

*Great Organ, 16 Stops.*

1. Bourdon .....	32 feet tone.	9. Octav .....	4 feet.
2. Principal, tin, in front ..	16 feet.	10. Dolce .....	4 feet.
3. Bourdon .....	16 feet tone.	11. Fugara .....	4 feet.
4. Octav .....	8 feet.	12. Super-octav .....	2 feet.
5. Gamba .....	8 feet.	13. Mixtur, IV ranks.. 4, 2½, 1½, & 1 feet.	
6. Gedact .....	8 feet tone.	14. Cornet, IV ranks ..	10½ feet tone.
7. Piffara, II ranks ..	8 & 4 feet.	15. Tuba .....	16 feet.
8. Quint .....	5½ feet.	16. Trompette .....	8 feet.

*Second Manual, 13 Stops.*

17. Bourdon .....	16 feet tone.	24. Flote .....	4 feet.
18. Principal .....	8 feet.	25. Rohrflote .....	4 feet tone.
19. Gedact .....	8 feet tone.	26. Nazard .....	2½ feet.
20. Viola .....	8 feet.	27. Super-octave .....	2 feet.
21. Salicional .....	8 feet.	28. Mixtur, IV ranks..	2 feet.
22. Piffara .....	8 feet.	29. Clarinet .....	8 feet tone.
23. Octave .....	4 feet.		

*Choir, or 3rd Organ, 11 Stops.*

30. Salicional .....	16 feet.	36. Octav .....	4 feet.
31. Principal .....	8 feet.	37. Travers-flote... ..	4 feet.
32. Gedact .....	8 feet tone.	38. Flageolet .....	2 feet.
33. Viola .....	8 feet.	39. Mixtur, II ranks.	
34. Harmonica.....	8 feet.	40. Phyzharmonica.....	8 feet.
35. Flote .....	8 feet.		

*Echo Organ, 9 Stops.*

41. Principal .....	8 feet.	46. Flote .....	4 feet.
42. Gedact .....	8 feet tone.	47. Salicet .....	2 feet.
43. Dolce .....	8 feet.	48. Super-octav .....	2 feet.
44. Viola .....	4 feet.	49. Sesquialtera, II ranks...	2½ & 1½ feet.
45. Octav .....	4 feet.		

*First Pedal, 14 Stops.*

50. Sub-bass, wood . . . . .	32 feet.	57. Quint .....	5½ feet.
51. Principal, metal .. . . .	16 feet.	58. Octav .....	4 feet.
52. Octav, wood .....	16 feet.	59. Posaune .....	32 feet.
53. Violon, II ranks .. . . .	16 & 8 feet.	60. Posaunc .....	16 feet.
54. Quint .....	10½ feet.	61. Trompette .....	8 feet.
55. Octav .....	8 feet.	62. Clarion .....	4 feet.
56. Quintadon .....	8 feet tone.	63. Clarion .....	2 feet.

*Second Pedal, 7 Stops.*

64. Bourdon .....	16 feet tone.	68. Flautino .....	2 feet.
65. Violoncello .....	8 feet.	69. Serpent .....	16 feet.
66. Bourdon .....	8 feet tone.	70. Basset Horn .....	8 feet.
67. Flote .....	4 feet.		

*Accessory Stops.*

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| 1. First Pedal to Second Pedal. | 4. Second Manual to Second Pedal. |
| 2. First and Second Manual.     | 5. Second and Third Manual.       |
| 3. First Manual to First Pedal. | 6. Third and Fourth Manual.       |

*Compass.*Four Manuals, CC to d<sup>3</sup> in alt.

Two Pedals, CCC to tenor d.

## 129. STUTGARD.

The organ in the Jews' Synagogue was built by Weigle in the year 1860. It has 2 Manuals, Pedal, and 22 stops, of which the following is a list :—

*Great Organ, 11 Stops.*

1. Bourdon .....	16 feet tone.	7. Rohrflote .....	4 feet tone
2. Principal .....	8 feet.	8. Quint.....	2½ feet.
3. Gedact .....	8 feet tone.	9. Super-octave .....	2 feet.
4. Viol di Gamba .....	8 feet.	10. Mixtur, IV ranks.	
5. Flaut dolce .....	8 feet.	11. Trompette .....	8 feet.
6. Octave .....	4 feet.		

*Choir Organ, 7 Stops.*

12. Principal .....	8 feet.	16. Gemshorn .....	4 feet.
13. Lieblich Gedact .....	8 feet tone.	17. Traverso .....	4 feet.
14. Dolce .....	8 feet.	18. Phyzharmonica .....	8 feet.
15. Salicional .....	8 feet.		

*Pedal, 4 Stops.*

19. Violon .....	16 feet.	21. Octave .....	8 feet.
20. Bourdon .....	16 feet tone.	22. Posaune .....	16 feet.

*Couplers, &c.*

Choir to Great. | Great to Pedal. | Choir to Pedal. | Glock.

## 130. WEINGARTEN.

The central dome and the two west towers of the great Church of the Benedictine Monastery at Weingarten are seen to great advantage from the Ravensburg Railway. The monastery is approached by a flight of twenty steps, leading to a paved "place," with the west end of the Church in front; a house, with gateway leading to monastic buildings, to the right; a fine prospect of the country to the left, with the steps, the town, and a view of Ravensburg, and country between and beyond, in the remaining direction. The organ in the monastery was being cleaned and repaired, at the time of our visit, by Weigle, of Stutgard. We could not, therefore, form any opinion of its general effect; but we tried several of the pipes separately, and obtained a general idea of the scale of some of the stops. The 32-foot pipe, of tin, in front, measures between 15 and 16 inches in diameter; the largest stopped pipe, 32 feet tone, about 11 by 13 inches inside, of yellow deal; the Violoncello, 8 feet, on the Pedal, is harmonic, 16 feet in length, of tin, 3½ inches in diameter; the Violon and Octave Bass, 16 feet, are of wood, the latter about 10 inches across the mouth. The "Coppel" is of metal, stopped, with sliding cap; large scale, the CC pipe (4 feet length) being over 4 inches in diameter, probe tin, very thick, with arched lip; tone full and pure, like that of very good wood pipes. The Principal Tutti, large scale, CC, 5½ to 6 inches, and very heavy pipes; tone very strong. The Carillon on third Manual, composed of real bells, shaped like those attached to skeleton clocks, of bright metal; very musical and pure in tone. Bombarde Bass, 32 feet, of wood, like pear tree in the upper part, painted white outside. Scale small, tenor d about 2 inches square inside. Largest pipes have metal boots and sockets, wooden reeds, leathered, and brass tongues.

The draw stops are arranged in six horizontal rows on each side, six in a row, with two additional on each side, making 76 draw stops in the total. Knobs of turned ivory; the draws also of ivory, ¾ of an inch square. The names of the stops, on plates of ivory, are let into the fittings.

*Great, 16 Stops.*

1. Prestant.....	16 feet.	9. Querflöte .....	4 feet.
2. Principal .....	8 feet.	10. Hohlflöte .....	2 feet.
3. Rohrflöte .....	8 feet tone.	11. Super-octave .....	2 feet.
4. Piffara .....	8 feet.	12. Sesquialtera, VIII ranks	2½ feet.
5. Quintaton .....	8 feet tone.	13. Mixture, XX ranks .....	2 feet.
6. Octave .....	4 feet.	14. Cornet, VIII ranks .....	2 feet.
7. Rohrflöte .....	4 feet tone.	15. Trompetten (new) .....	8 feet.
8. Flöte Douce .....	4 feet.	16. Cymbelstern.	

*Choir, 12 Stops.*

17. Bordun .....	16 feet tone.	23. Salicional .....	8 feet.
18. Principal tutti (strong) ..	8 feet.	24. Octav Douce .....	4 feet.
19. Violoncello .....	8 feet.	25. Viola .....	4 feet.
20. Coppel .....	8 feet.	26. Nasat .....	2 feet.
21. Hohlflöte .....	8 feet.	27. Mixture, XXI ranks .....	4 feet.
22. Unda Maris .....	8 feet.	28. Cymbal, II ranks .....	2 feet.

*Echo, 13 Stops.*

29. Bordun .....	16 feet tone.	36. Piffaro .....	4 feet.
30. Principal .....	8 feet.	37. Super-octave .....	2 feet.
31. Quintaton .....	8 feet tone.	38. Mixture, XII ranks .....	2 feet.
32. Viola Douce .....	8 feet.	39. Cornet, IV ranks .....	1 foot.
33. Flauten .....	8 feet.	40. Clarinet (new) .....	8 feet.
34. Octave .....	8 feet.	41. Carillon, from tenor f up- wards.	
35. Hohlflöte .....	4 feet.		



*Positif, 12 Stops.*

42. Principal Douce, in front...	8 feet.	48. Rohrflöte .....	4 feet tone.
43. Violoncello .....	8 feet.	49. Querflöte .....	4 feet.
44. Quintaton .....	8 feet.	50. Flageolet .....	4 feet.
45. Flute Douce .....	8 feet.	51. Cornet, XII ranks .....	2 feet.
46. Piffaro .....	4 feet.	52. Hautbois .....	8 feet.
47. Flauto Traverso .....	4 feet.	53. Voix humaine .....	8 feet.

*Pedal, 17 Stops.*

54. Contra-bass, tin, in front..	32 feet.	63. Sesquialtera Bass, II and	
55. Sub-bass, wood .....	32 feet tone.	III ranks .....	2½ feet.
56. Octave Bass, wood .....	16 feet.	64. Mixtured Bass, V ranks...	8 feet.
57. Violon Bass, wood .....	16 feet.	65. Bombarde Bass .....	32 feet.
58. Quintaton Bass .....	16 feet.	66. Posaune Bass .....	16 feet.
59. Super-octave Bass, in front	8 feet.	67. Trompette Bass .....	8 feet.
60. Flöte Douce Bass .....	8 feet.	68. Fagott Bass .....	8 feet.
61. Violoncello Bass .....	8 feet.	69. Cornet Bass .....	4 feet.
62. Hohlflöte Bass .....	4 feet.	70. Carillon Pedal.	

*Compass.*Manuals, CC to c<sup>3</sup> in alt.

| Flat pitch.

Pedals, CCC to tenor d.

*Accessory Stops, Movements, &c.*

1. Coupler, Echo to Great.
2. Tremulant.
3. Cuckoo.

4. Rosignal.
5. Cymbals.
6. La Force.

## 131. MUNICH.

The organ in the Odéon Concert-room, at Munich, is a little gem. It was built, in 1851, by Walker, of Ludwigsburg, and contains 20 stops, distributed among two Manuals and Pedal. The Phyzharmonica is on a separate wind, and is managed, by a new Pedal contrivance, so as to produce the most exquisite effects of delicate *crescendo* and *diminuendo*. The following is the specification of the above-named organ :—

*Great, 10 Stops.*

1. Bourdon, wood .....	16 feet.	6. Octave, metal .....	4 feet.
2. Principal, metal .....	8 feet.	7. Flöte, wood .....	4 feet.
3. Gamba, wood .....	8 feet.	8. Octave, metal .....	2 feet.
4. Rohrflöte, metal .....	8 feet tone.	9. Cornet, VII ranks .....	16 feet tone.
5. Gedact, wood .....	8 feet tone.	10. Trompette .....	8 feet.

*Echo, 6 Stops.*

11. Salicional, metal .....	8 feet.	14. Spitzflöte, metal .....	4 feet.
12. Flöte, wood .....	8 feet.	15. Dolce, metal .....	4 feet.
13. Gedact, wood .....	8 feet tone.	16. Phyzharmonica .....	8 feet.

*Pedal, 4 Stops.*

17. Sub-bass, wood, open. ....	16 feet.	19. Violoncello, metal .....	8 feet.
18. Viol di Gamba, metal .....	16 feet.	20. Fagotto .....	16 feet.

*Accessory Stops.*

1. Echo to Great.

2. Great to Pedal.

*Compass.*Manuals, CC to f<sup>3</sup> in alt.

| Pedal, CCC to tenor d.

## 132. RATISBON.

The organ in the Church of St. Emmeran, at Ratisbon, was built about 250 years ago. It has 28 stops distributed among 2 Manuals and Pedal in the following manner :—

*Great, 10 Stops.*

1. Principal .....	8 feet.	6. Flöte .....	4 feet.
2. Bourdon .....	8 feet tone.	7. Quint .....	2½ feet.
3. Gamba .....	8 feet.	8. Super-octave .....	2 feet.
4. Coppel .....	8 feet.	9. Mixtur, III ranks.	
5. Octave .....	4 feet.	10. Mixtur, minor, II ranks.	

*Choir, 8 Stops.*

11. Coppel .....	8 feet.	15. Octave .....	4 feet.
12. Salicional .....	8 feet.	16. Flöte .....	4 feet.
13. Allemande .....	8 feet.	17. Spitzflöte .....	4 feet.
14. Principal .....	4 feet.	18. Super-octave .....	2 feet.

*Pedal, 8 Stops.*

19. Gross-bass .....	16 feet.	23. Quint .....	5½ feet.
20. Violone .....	16 feet.	24. Octave .....	4 feet.
21. Principal .....	8 feet.	25. Super-octave .....	2 feet.
22. Violoncello .....	8 feet.	26. Mixtur, V ranks.	

*Accessory Stops.*

1. Choir to Great.		2. Great to Pedal.
--------------------	--	--------------------

*Compass.*

Manuals, CC to c <sup>3</sup> in alt.		Pedal, CCC to A.
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## 133. BOTZEN.

The organ in the Parish Church at Botzen, Tyrol, was built by Hess, and repaired by Carlo Mauracher. It has 2 Manuals and Pedal, and 30 stops, of which the following is a list :—

*Great, 12 Stops.*

1. Coppel .....	16 feet.	7. Flauto duodecimo .....	2½ feet.
2. Gamba .....	8 feet.	8. Super-octave .....	2 feet.
3. Flaut amabile .....	8 feet.	9. Mixtur.	
4. Flauto stoppo .....	8 feet tone.	10. Cornet.	
5. Quintadena .....	8 feet tone.	11. Trombe .....	8 feet.
6. Octave .....	4 feet.	12. Vox humana .....	8 feet tone.

*Choir, 10 Stops.*

13. Coppel .....	8 feet.	18. Sesquialtera, II ranks .....	2½ feet.
14. Viola .....	8 feet.	19. Flageolet .....	2 feet.
15. Salicional .....	8 feet.	20. Tibia Silvest .....	2 feet.
16. Principal .....	4 feet.	21. Cymbal .....	1½ feet.
17. Flauto .....	4 feet.	22. Dulcian .....	8 feet.

*Pedal, 8 Stops.*

23. Principal Bass .....	16 feet.	27. Octave Bass .....	8 feet.
24. Violon Bass .....	16 feet.	28. Mixtur Bass .....	4 feet.
25. Sub-bass .....	16 feet tone.	29. Posaune .....	8 feet.
26. Principal .....	8 feet.	30. Clarion .....	4 feet.

*Compass.*

Manuals, CC to f <sup>3</sup> in alt.		Pedal, CCC to FF.
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## 134. ST. PETER'S, AT ROME.

So little is generally known in England concerning the organs of Italy that it is presumed the following accounts of some of the large cathedral and celebrated church organs of that country will be perused with much interest. It will be perceived, from the particulars relating to the subject appended to the specifications in question, that the compass most usually adopted by the Italian organ-builders for the Manuals of their instruments is that descending to the CCC or 16-feet key. Occasionally this range is met with "complete," as in the organ at St. Alessandro, at Milan, and therefore corresponding almost exactly with the downward compass of the Great organ Manuals at St. Paul's Cathedral, Westminster Abbey, &c. The stops of a Manual of such range are just double the size of the usually quoted lengths; that is to say, the Principal (Open Diapason) is 16 feet actual measurement, and not 8; the Ottava (Principal) is 8 feet, and not 4, and so on; and the Pedal organ of such instruments usually consists of but a very few stops, as the deeper tones of the Manual serve as a sort of substitute for it in general effects. Sometimes the Manuals are of the compass denominated "CCC short;" that is, they have the 16-feet key for the lowest note, but with certain tones omitted from the scale, and such an arrangement of the remaining keys as is shown in the following scheme:—

EEE		FFF#		GG#		BB?		
CCC		FFF	DDD	GG	EEE	AA	BB	CC

Sometimes the Italian Manuals descend to FFF, as in the two large organs at Milan Cathedral, corresponding with the compass adopted by Green for his organs at St. George's Chapel, Windsor, Salisbury Cathedral, Greenwich Hospital, &c. The length of the stops in all such FFF Manuals is half as large again as the corresponding stops of CC organs; thus the Manual and Pedal Diapasons are not simply 8 and 16 feet in length, but 12 and 24 feet respectively. In a few instances CC Manuals are met with, as in two of the Geneva organs, with, of course, a somewhat larger proportionate Pedal organ by way of "Bass."

Among other peculiarities in the Italian system of organ-building will be noticed that of placing one more Open Diapason (Principale) in the treble of the Manual than in the bass, evidently with the view of preserving an equal strength between the upper and lower tones of the gamut, as in the organs at St. Peter's at Rome, Milan Cathedral, &c. In some instances this plan for strengthening the acute sounds will be found extended to the Principal (Ottava), as in organs at Milan, Como, &c. Another feature in connection with the Italian schemes is the plan of making a greater number of the small ranks of pipes draw separately than is the custom in any other country. Thus we find not only the 19th and 22nd frequently appearing as separate stops, but also the 26th, 29th, and even the 33rd and 36th, disposed in a similar manner. Among the most striking features in the Italian organs, however, is the constant presence of the Octave and Sub-octave couplers, which so materially increase the number of distinct combinations, as well as augment the general power of instruments possessing them.

In the Church of St. Peter's, at Rome, there are *four* organs ; all of which, however, are small for so spacious an edifice. The largest one of the number was originally built about 150 years since, but has recently been reconstructed and enlarged by Priori, an organ-builder in Rome. It has 2 Manuals and Pedal, and 27 stops, of which the following are the names. As, however, many of the names are probably new to many English readers, a list of equivalent terms is placed in parallel columns therewith, which will serve to elucidate their meaning :—

*Great, 17 Stops.*

1. Principale doppio, Soprano e Basso . . .	Double Diapason, Treble and Bass.
2. Principale 1mo Soprano . . . . .	First Open Diapason, Treble.
Principale 1mo Basso . . . . .	First Open Diapason, Bass.
3. Principale 2do Soprano . . . . .	Second Open Diapason, Treble.
Principale 2do Basso . . . . .	Second Open Diapason, Bass.
4. Principale 3zo, Soprano . . . . .	Third Open Diapason, Treble.
5. Flauto Traverso, Soprano e Basso . . . . .	German Flute, Treble and Bass.
6. Flauto Tedesca, Soprano . . . . .	A kind of Clarabella.
7. Ottava Soprano . . . . .	Octave or Principal Treble.
Ottava Basso . . . . .	Octave or Principal Bass.
8. Duodecima . . . . .	Twelfth.
9. Decima quinta . . . . .	Fifteenth.
10. Ottavini, Basso e Soprano . . . . .	Piccolo, Bass and Treble.
11. Decima nona . . . . .	Nineteenth or Lorigot.
12. Vigesima seconda . . . . .	Twenty-second or Octave Fifteenth.
13. Vigesima nona . . . . .	Twenty-ninth or Super-octave Fifteenth.
14. Ripieno di quattro . . . . .	Chorus or Mixture, IV ranks.
15. Cornetto Soprano, di cinque . . . . .	Cornet, Treble, V ranks.
16. Tromba Soprano . . . . .	Trumpet, Treble.
Trombone Basso . . . . .	Trombone, Bass.
17. Corno Inglese, Soprano . . . . .	English Horn, Treble.
Fagotto, Basso . . . . .	Bassoon, Bass.

*Swell, 6 Stops.*

18. Principale, Soprano . . . . .	Open Diapason, Treble.
Principale, Basso . . . . .	Open Diapason, Bass.
19. Ottava . . . . .	Octave or Principal.
20. Decima quinta . . . . .	Fifteenth.
21. Ripieur, di cinque . . . . .	Mixture, V ranks.
22. Oboe, Soprano . . . . .	Hautboy, Treble.
23. Tromba, Soprano . . . . .	Trumpet, Treble.
Corno, Basso . . . . .	Horn, Bass.

*Pedal, 4 Stops.*

24. Contra-Basso, di 16 . . . . .	Open Diapason, wood . . . . .	16 feet.
25. Principale, di 16 . . . . .	Diapason . . . . .	16 feet.
26. Principale, di 8 . . . . .	Principal . . . . .	8 feet.
27. Reinforza a lingue . . . . .	Free Reed, without tubes . . . . .	16 feet tone.

*Accessory Stops, Movements, &c.*

1. Coupler, Swell to Great.	4, 5. Octave and Sub-octave on Great Manual.	
2. Coupler, Great to Pedal.		6, 7, 8. Three Composition Pedals.
3. Coupler, Swell to Pedal.		9. Drum Pedal.

*Compass.*

Manuals, CCC short to f<sup>3</sup> in alt.

| Pedal, CCC short to tenor c:

## 135. ROME.

The organ that ranks as second in point of size in St. Peter's, at Rome, was built by Priori, of that city, and has 1 Manual and Pedal, and 21 stops, of which the following is a list :—

*Manual, 17 Stops.*

- |                                      |                                       |
|--------------------------------------|---------------------------------------|
| 1. Contra-Bassi, Soprano e Basso.    | 10. Decima nona.                      |
| 2. Principale, 1mo Soprano.          | 11. Vigesima seconda.                 |
| Principale, Basso.                   | 12. Vigesima nona.                    |
| 3. Principale, 2do Soprano.          | 13. Ripieno di cinque.                |
| 4. Flauto Traverso, Soprano e Basso. | 14. Cornetto di quattro, Soprano.     |
| 5. Flauto Tedesco, Soprano.          | 15. Voce Umana ( <i>not a reed</i> ). |
| 6. Ottava, Soprano.                  | 16. Tromba, Soprano.                  |
| Ottava, Basso.                       | Trombone, Basso.                      |
| 7. Duodecima.                        | 17. Corno Inglese, Soprano.           |
| 8. Decima quinta                     | Fagotto, Basso.                       |
| 9. Ottavini ne Basso.                |                                       |

*Pedal, 4 Stops.*

- |                          |                      |
|--------------------------|----------------------|
| 18. Contra-Basso, di 16. | 20. Ottava, di 4.    |
| 19. Principale, di 8.    | 21. Bombarde, di 16. |

*Accessory Stop.*

Drum.

The Church of St. John, of Lateran, at Rome, has an organ of 36 stops. It was first built in 1549, and is the largest instrument in the city.

## 136. MILAN CATHEDRAL.

In Milan Cathedral there are two organs, one on each side of the choir; both of which are exceedingly effective, and suit admirably the noble building in which they are placed. Neither of them contains any Reed stops; stops of that nature being expressly forbidden by the Ambrosian rite. Both instruments were made by the brothers Serassi, of Bergamo. That which stands on the north-side of the choir was completed in 1842, has 1 Manual and Pedal, and the following stops :—

*Manual, 28 Stops.*

- |  |  |
|--|--|
| 1. Doppio ne Soprani, di 24 Piedi.<br>(Double Treble.) | 15. Decima quinta, 2do ..... (15th.)                     |
| Contra-Basso, di 24 Piedi. (Double Bass.)              | 16. Flautino ..... (Piccolo.)                            |
| 2. Principale, 1mo Soprano. (Open Treble.)             | 17. Decima nona, e ..... 1mo.                            |
| Principale, 1mo Basso ..... (Open Bass.)               | Vigesima seconda ..... (19 and 22.)                      |
| 3. Principale, 2do Soprano. (Open Treble.)             | 18. Decima nona, e ..... 2do.                            |
| Principale, 2do Basso ..... (Open Bass.)               | Vigesima seconda ..... (19 and 22.)                      |
| 4. Principale, 3zo Soprano (Open Treble.)              | 19. Vigesima sesta, e } ..... (26 and 29.)               |
| 5. Violone Soprano ..... (Violin.)                     | Vigesima nona } .....                                    |
| Violono Basso ..... (Bass.)                            | 20. Vigesima quarto, c } ..... (24 and 17.)              |
| 6. Flautone, Soprano ..... (Met. St. Dn.)              | Decima settima } .....                                   |
| Flautone, Basso ..... (Stopped Bass.)                  | 21. Trigesima terza, e } ..... (33 and 36.)              |
| 7. Flauto Tedesco ..... (Clarabella.)                  | Trigesima sesta } .....                                  |
| 8. Ottava, 1mo Soprano ..... (Prin. Tre.)              | 22. Trigesima prima, e } ..... (31 and 36.)              |
| Ottava, 1mo Basso ..... (Prin. Bass.)                  | Trigesima sesta } .....                                  |
| 9. Ottava, 2do Soprano ..... (Prin. Tre.)              | 23. Ripieno di quattro (Mixture IV ranks.)               |
| Ottava, 2do Basso ..... (Prin. Bass.)                  | 24. Ripieno di tre (Mixture III ranks.)                  |
| 10. Ottava, 3zo Soprano ..... (Prin. Tre.)             | 25. Cornetto Soprano, a cinque (Cornet V ranks.)         |
| 11. Viola Soprano ..... (Octave Gamba.)                | 26. Cornettino Sop. : a quattro (small Cornet IV ranks.) |
| Violoncello Basso ..... (Gamba Bass.)                  | 27. Corno dolce, Soprano ..... (Soft Horn.)              |
| 12. Flauto Traverso ..... (German Flute.)              | 28. Voce Humana, Sop. .. (not a reed.)                   |
| 13. Duodecimo ..... (12th.)                            |  |
| 14. Decima quinta, 1mo ..... (15th.)                   |  |

*Pedal, 4 Stops.*

- |                          |          |                      |          |
|--------------------------|----------|----------------------|----------|
| 29. Contra Basso .....   | 24 feet. | 31. Ottava .....     | 12 feet. |
| 30. Basso Profundo ..... | 24 feet. | 32. Principale ..... | 12 feet. |

*Accessory Stops, Movements, &c.*

- |   |                               |
|---|-------------------------------|
| 1. Terza Mano (third-hand, octave Coupler). | 3. Tremblant.                 |
| 2. Pedali armonichi (Pedal Coupler).        | 4, 5. Two Composition Pedals. |

*Compass.*

Manual, FFF to  $f^3$  in alt., complete. | Pedal, FFF to tenor c, complete.

## 137. MILAN CATHEDRAL.

The organ on the south side of the Choir has 2 Manuals and 29 stops, of which the following is a list :—

*Great, 21 Stops.*

- |                             |                              |
|-----------------------------|------------------------------|
| 1. Contra Bassi.            | 10. Decima nona.             |
| 2. Principale, 1mo Soprano. | 11. Vigesima seconda.        |
| Principale, 1mo Basso.      | 12. Vigesima sesta.          |
| 3. Principale, 2do Soprano. | 13. Vigesima nona.           |
| Principale, 2do Basso.      | 14. Vigesima sesta e nona.   |
| 4. Flauto Traverso.         | 15. Trigesima terza.         |
| 5. Ottava Soprano.          | 16. Trigesima sesta.         |
| Ottava Bassi.               | 17. Trigesima terza e sesta. |
| 6. Ottava Soprano.          | 18. Quadregesima, e          |
| Ottava Bassi.               | Quadregesima, terza.         |
| 7. Flauto in Ottava.        | 19. Cornetta primo.          |
| 8. Duodecima.               | 20. Cornetta secunda.        |
| 9. Quinta decima.           | 21. Voce Umana.              |

*Positif, 8 Stops.*

- |                         |                       |
|-------------------------|-----------------------|
| 22. Principale Soprani. | 25. Quinta decima.    |
| Principale Bassi.       | 26. Decima nona.      |
| 23. Flauto Soprani.     | 27. Vigesima secunda. |
| 24. Ottava Soprani.     | 28. Vigesima sesta.   |
| Ottava Bassi.           | 29. Vigesima nona.    |

*Accessory Stops, Movements, &c.*

- |                              |                              |
|------------------------------|------------------------------|
| 1. Bassi Armonici ne Pedali. | 3. Sub-octave Coupler.       |
| 2. Terzo Mano.               | 4. Piano and Forte movement. |

*Compass.*

Manuals, FFF to  $g^3$  in altissimo. | Pedal Clavier, FFF to tenor b.

## 138. MILAN.

The organ in the Church of St. Alessandro, at Milan, has 49 stops, 2 Manuals, and a Pedal of 10 stops. The following is its specification :—

*Great, 24 Stops.*

- |                                |          |                              |          |
|--------------------------------|----------|------------------------------|----------|
| 1. Principale Soprano 1mo ...  | 32 feet. | 11. Violino Soprano .....    | 8 feet.  |
| Principale Basso 1mo .....     | 32 feet. | Basso Viola .....            | 8 feet.  |
| 2. Principale Sop. e Basso 2do | 32 feet. | 12. Quinta decima 1mo ...    | 4 feet.  |
| 3. Violone Basso al CC ...     | 32 feet. | 13. Quinta decima 2do .....  | 4 feet.  |
| 4. Principale Soprano 1mo ...  | 16 feet. | 14. Decima nona .....        | 3 feet.  |
| Principale Basso 1mo ...       | 16 feet. | 15. Ottavino .....           | 2 feet.  |
| 5. Principale Soprano 2do ...  | 16 feet. | 16. Ripieno di due.          |          |
| Principale Basso 2do .....     | 16 feet. | 17. Ripieno di quattro.      |          |
| 6. Viola Soprano .....         | 16 feet. | 18. Ripieno di tre.          |          |
| Viola Basso .....              | 16 feet. | 19. Ripieno di quattro.      |          |
| 7. Corno Flauto .....          | 16 feet. | 20. Corno Inglese .....      | 32 feet. |
| 8. Ottava Soprano 1mo .....    | 8 feet.  | 21. Tromba Soprano .....     | 16 feet. |
| Ottava Basso 1mo .....         | 8 feet.  | Tromba Basso .....           | 16 feet. |
| 9. Ottava Sop. e Basso .....   | 8 feet.  | 22. Clarinetto Soprano ..... | 16 feet. |
| 10. Flauto Soprano .....       | 8 feet.  | Fagotto Basso .....          | 16 feet. |
| Flauto Basso .....             | 8 feet.  | 23. Tromba Allemanno Basso   | 16 feet. |
|                                |          | 24. Tromba Armoniche .....   | 8 feet.  |

*Swell, 15 Stops.*

25. Principale Soprano .....	16 feet.	31. Flauto Traverso Soprano .....	8 feet.
Principale Basso .....	16 feet.	32. Viola Basso .....	8 feet.
26. Voce flebile Soprano 1mo .....	16 feet.	33. Decima quinta .....	4 feet.
Voce flebile Basso .....	16 feet.	34. Decima nona .....	3 feet.
27. Voce flebile Sop. 2ndo .....	16 feet.	35. Vigesima seconda .....	2 feet.
28. Violetta Soprano 1mo .....	16 feet.	36. Vigesima sesta e nona .....	
Violoncello Basso .....	16 feet.	37. Clarinetto Soprano .....	16 feet.
29. Violetta Soprano 2ndo .....	16 feet.	38. Fagottone Basso .....	32 feet.
30. Ottava .....	8 feet.	39. Clarone Basso .....	8 feet.

*Pedal, 10 Stops.*

40. Violone profondo .....	32 feet.	45. Ripieno a tre .....	8, 6, & 4 feet.
41. Contrabassi e rinforzi .....	16 feet.	46. Bombardi .....	16 feet.
42. Violoncello a lingu in la 16 feet.		47. Tromboni .....	8 feet.
43. Bassi Armonichi e duodecima.		48. Corni da caccia .....	4 feet.
44. Principali e ottava .....	8 & 4 feet.	49. Timpani.	

*Accessory Stops, Movements, &c.*

- |   |                                    |
|---|------------------------------------|
| 1. Coupler, Swell to Great.                       | 4. Thunder Pedal.                  |
| 2. Coupler, Great to Pedal.                       | 5. Drums.                          |
| 3. Seraphine, or Fisarmonica, on a separate wind. | 6, 7, 8. Three Composition Pedals. |

*Compass.*

Great, CCC to c<sup>4</sup> in altissimo, six complete octaves.

Swell, CC to c<sup>4</sup> in altissimo, five complete octaves.

Pedal, CCC to Tenor c, two complete octaves.

## 139. COMO.

There are two organs in the Cathedral at Como. The oldest was built in 1596, and was afterwards much improved, but is now unplayable. The other was erected in 1650 by Hermann, a Jesuit, and is of exquisite tone. It has 3 Manuals and Pedal, and 48 stops, of which the following is a list :—

*Great Organ, 20 Stops.*

1. Principale Soprano .....	32 feet.	11. Duodecima .....	6 feet.
2. Principale Soprano e Basso .....	32 feet.	12. Quinta decima Soprano .....	4 feet.
3. Principale Soprano 1mo .....	16 feet.	Quinta decima Basso .....	4 feet.
Principale Basso 1mo .....	16 feet.	13. Ottavio Soprano .....	4 feet.
4. Principale Soprano 2do .....	16 feet.	14. Decima nona .....	3 feet.
Principale Basso 2do .....	16 feet.	15. Vigesima seconda .....	2 feet.
5. Principale Soprano 3zo .....	16 feet.	16. Ripieno di quattro.	
6. Flauto Soprano .....	16 feet.	17. Ripieno di quattro.	
7. Viola Basso profonda .....	16 feet.	18. Tromba Soprano .....	16 feet.
8. Ottava Soprano 1mo .....	8 feet.	Tromba Basso .....	16 feet.
Ottava Bass 1mo .....	8 feet.	19. Trombe di caccia Soprano .....	16 feet.
9. Ottava Soprano e Basso .....	8 feet.	Fagotto Basso .....	16 feet.
10. Flauto in Ottava, Soprano e Basso .....	8 feet.	20. Voce Umana Soprano .....	16 feet.

*Choir Organ, 17 Stops.*

21. Principale Soprano .....	16 feet.	28. Flagioletta Soprano .....	4 feet.
Principale Basso .....	16 feet.	29. Decima nona .....	3 feet.
22. Principale Soprano .....	16 feet.	30. Vigesima seconda .....	2 feet.
23. Flauto Allemanno Soprano .....	16 feet.	31. Vigesima sesta e nona .....	
24. Violino Soprano .....	16 feet.	32. Trigesima terza e sesta.	
Violono Basso .....	16 feet.	33. Cornetto Soprano di cinque.	
25. Ottava Soprano .....	8 feet.	34. Corno Inglese Soprano .....	32 feet.
Ottava Basso .....	8 feet.	35. Oboe Soprano .....	16 feet.
26. Flauto in Ottava Soprano .....	8 feet.	Violoncello Basso (a reed) .....	16 feet.
Flauto Basso .....	8 feet.	36. Voce Umana Soprano .....	16 feet.
27. Quinta Decima .....	4 feet.	37. Tromba Armoniche Basso .....	8 feet.

*Swell Organ, 7 Stops.*

38. Principale Soprano .....	16 feet.	41. Corno dolce, Soprano .....	32 feet.
Principale Basso .....	16 feet.	42. Corno Bassetto, Soprano...	32 feet.
39. Flauto in ottava .....	8 feet.	43. Voce Umana, Soprano ...	16 feet.
40. Ripieno di cinque.		44. Fagottone, Basso .....	16 feet.

*Pedal Organ, 4 Stops.*

45. Contra Bassi con rinforzi...	32 & 16 feet.	47. Bombardone .....	16 feet.
46. Contra Bassi dolci (stopped)	16 feet.	48. Tromboni .....	8 feet.

*Accessory Stops, Movements, &c.*

1. Coupler, Choir to Great.	4. 5. Octave and Double Couplers.
2. Coupler, Swell to Great.	6, 7, 8. Three Composition Pedals.
3. Coupler, Great to Pedal.	9. Drums.

*Compass.*

Manuals, CCC short to f<sup>3</sup> in alt. | Pedal, CCC short to tenor d.

## 140. COMO.

The organ in the Church of the Santissimo Crocifisso, at Como, was built by the Brothers Serassi, of Bergamo. It has 2 Manuals, a Pedal of 8 Stops, and 39 stops, of which latter the following is a list :—

*Great, 24 Stops.*

1. Principale Soprano .....	32 feet.	Flauto Ottava, Basso .....	8 feet.
Principale Basso .....	32 feet.	13. Duodecima .....	6 feet.
2. Principale Soprano .....	32 feet.	14. Quinta decima, Soprano ...	4 feet.
3. Corno dolce .....	32 feet.	Quinta decima, Basso ...	4 feet.
4. Principale Soprano, 1mo ..	16 feet.	15. Decima nona .....	3 feet.
Principale Basso, 1mo .....	16 feet.	16. Vigesima seconda .....	2 feet.
5. Principale Soprano, 2ndo ..	16 feet.	17. Ripieno di quattro.	
6. Principale Soprano, 3zo ..	16 feet.	18. Ripieno di quattro.	
7. Flauto Traverso Soprano ..	16 feet.	19. Cornetto di cinque.	
8. Violone Basso .....	16 feet.	20. Corno Inglese, Soprano ...	32 feet.
9. Ottava Soprano e Basso ...	8 feet.	21. Tromba Soprano .....	16 feet.
10. Ottava Soprano .....	8 feet.	22. Fagotti Basso .....	16 feet.
11. Viola Basso .....	8 feet.	23. Voce Umana, Soprano ...	16 feet.
12. Flauto Ottava, Soprano ...	8 feet.	24. Clarone, Basso .....	8 feet.

*Swell Organ, 8 Stops.*

25. Principale Soprano .....	16 feet.	28. Flauto in Ottava .....	8 feet.
Principale Basso .....	16 feet.	29. Decima quinta e nona.	
26. Corno Musa .....	16 feet.	30. Ripieno di tre.	
27. Ottava Soprano .....	8 feet.	31. Cornettino di tre, Soprano.	
Ottava Basso .....	8 feet.	32. Serpentino Bass, al CC ...	32 feet.

*Pedal Organ, 8 Stops.*

33. Contra-bassi, al sol (GGG)	32 feet.	37. Bombardi .....	16 feet.
34. Contra-bassi con rinforzi ...	16 feet.	38. Tromboni .....	8 feet.
35. Ottavo .....	8 feet.	39. Trombe .....	4 feet.
36. Ripieno di cinque.			

*Accessory Stops, Movements, &c.*

1. Coupler, Swell to Great.	6. Timpani.
2. Coupler, Great to Pedal.	7. Bells.
3. Coupler, Swell to Pedal.	8. Thunder.
4. Octave Coupler.	9, 10. Two Composition Pedals.
5. Sub-octave Coupler.	

*Compass.*

Manuals, CCC short to f<sup>3</sup> in alt. | Pedal, CCC short to tenor c.



## 141. FLORENCE.

The organ in the Church of St. Gaetano, at Florence, has 3 Manuals, embracing 34 stops, and a very good Contra-basso on the Pedal. The following is a list of the stops :—

*Great, 14 Stops.*

1. Principale, Soprano .....	8 feet.	8. Vigesima seconda.....	1 foot.
Principale, Basso .....	8 feet.	9. Ripieno di tre.	
2. Ottava.....	4 feet.	10. Cornetta di tre.	
3. Flauto.....	4 feet.	11. Cornettino di tre.	
4. Nasardo .....	3 feet.	12. Tromba, Soprano.....	8 feet.
5. Decima quinta .....	2 feet.	Tromba, Basso.....	8 feet.
6. Flautino, Soprano e Basso	2 feet.	13. Voce Umana.....	8 feet.
7. Decima nona .....	1½ foot.	14. Clarone .....	4 feet.

*Choir, 11 Stops.*

15. Corno dolce, Soprano .....	16 feet.	20. Flauto .....	4 feet.
16. Principale, Soprano .....	8 feet.	21. Flautino .....	2 feet.
Principale, Basso .....	8 feet.	22. Corno Inglese, Soprano ...	16 feet.
17. Voce Angelica .....	8 feet.	23. Tromba, Basso e Soprano	8 feet.
18. Flautone, metal .....	8 feet.	24. Oboe, Soprano.....	8 feet.
19. Ottava.....	4 feet.	25. Voce Umana.....	8 feet.

*Echo, 8 Stops.*

26. Principale .....	8 feet.	30. Decima Quinta .....	2 feet.
27. Ottava.....	4 feet.	31. Ripieno di quattro.	
28. Flauto .....	4 feet.	32. Cornettino di tre.	
29. Nasardo .....	3 feet.	33. Tromba .....	8 feet.

*Pedal, 1 Stop.*

34. Rinforza de Contra-bassi (wood, open)..... 16 feet.

*Accessory Stops, Movements, &c.*

- |                             |                                    |
|-----------------------------|------------------------------------|
| 1. Coupler, Choir to Great. | 4. Great Sub-octave Coupler.       |
| 2. Coupler, Echo to Great.  | 5. Great to Pedal.                 |
| 3. Great Octave Coupler.    | 6, 7, 8. Three Composition Pedals. |

*Compass.*

Manuals, CC short to c<sup>3</sup> in alt.

Pedal, CCC short to tenor c.

There are very excellent organs in the churches of St. Spirito and Santa Croce at Florence, the particulars of which, however, are not at hand. That in the church of St. Spirito has been rebuilt by Ducie, of Florence, and contains some remarkably fine reeds and a very effective 16 feet Principale on the Pedal.

## 142. GENOA.

The organ in the Church of Santa Maria des Vignes, at Genoa, was built by the Brothers Serassi, of Bergamo. It has 28 stops, of which the following is a list :—

*Manual, 27 Stops.*

- |   |  |
|---|--|
| 1. Soprano Doppio.<br>Contra-basso.                   | 13. Decima nona.                         |
| 2. Principale, 1mo Soprano.<br>Principale, 1mo Basso. | 14. Vigesima seconda.                    |
| 3. Principale, 2do Soprano.<br>Principale, 2do Basso. | 15. Vigesima sesta.                      |
| 4. Flauto Tedesco.                                    | 16. Vigesima nona.                       |
| 5. Flauto Francese, Soprano.                          | 17. Flageoletti ne Bassi.                |
| 6. Ottava, Soprano.<br>Ottava, Basso.                 | 18. Trigesima sesta.                     |
| 7. Traverso Ottava.                                   | 19. Ripieno di quattro.                  |
| 8. Viola Basso.                                       | 20. Ripieno di tre.                      |
| 9. Duodecima.   | 21. Cornetto di cinque.                  |
| 10. Decima Quinta 1mo.                                | 22. Cornetto di tre.                     |
| 11. Decima Quinta 2do.                                | 23. Tromba, Soprano.<br>Trombone, Basso. |
| 12. Ottavini.   | 24. Cor Anglais, Soprano.                |
|   | 25. Fagotti, Basso.                      |
|   | 26. Timpani.                             |
|   | 27. Bells.                               |

*Pedal, 1 Stop.*

28. Rinforzo di Contra Bassi (open, wood) ..... 16 feet.

*Accessory Stops, Movements, &c.*

1. Octave Coupler. | 2. Sub-octave Coupler. | 3 to 8. Six Composition Pedals.

*Compass.*Manual, CC short to c<sup>4</sup> in alt.

Pedal, CCC short to tenor c.

## 143. GENOA.

The organ in the Carigrana Church, at Genoa, was built by Hermann. It contains 3 Manuals and 42 stops, of which the following is a list :—

*Great, 25 Stops.*

- |                                      |                                |
|--------------------------------------|--------------------------------|
| 1. Contra Basso, Soprano e Basso.    | 13. Ottavini, Soprano e Basso. |
| 2. Contra Basso, Soprano.            | 14. Decima nona.               |
| 3. Principale Soprano 1mo.           | 15. Vigesima seconda.          |
| Principale Basso 1mo.                | 16. Vigesima nona.             |
| 4. Principale Soprano 2ndo.          | 17. Trigesima sesta.           |
| Principale Basso 2ndo.               | 18. Sesquialtera di quattio.   |
| 5. Principale Soprano 3vo.           | 19. Ripieno di cinque.         |
| 6. Flauto Traverso, Soprano e Basso. | 20. Cornetto di quattio.       |
| 7. Flauto Tedesco, Soprano e Basso.  | 21. Cornetto di tre.           |
| 8. Ottava Soprano 1mo.               | 22. Tromba Soprano.            |
| Ottava Basso.                        | Trombone Basso.                |
| 9. Ottava Soprano 2ndo.              | 23. Tromba Real, Soprano.      |
| 10. Flautino.                        | Fagotto Basso.                 |
| 11. Duodecima.                       | 24. Voce Umana (a Reed).       |
| 12. Decima quinta.                   | 25. Corna Musa, Soprano.       |

*Choir, 5 Stops.*

- |                 |                        |                         |
|-----------------|------------------------|-------------------------|
| 26. Principale. | 28. Ottava.            | 30. Vox Pueri, Soprano. |
| 27. Flautino.   | 29. Ripieno di cinque. | Vox Tauri, Basso.       |

*Echo, 6 Stops.*

- |                           |                         |                      |
|---------------------------|-------------------------|----------------------|
| 31. Principale.           | 33. Ottava.             | 35. Oboe, Soprano.   |
| 32. Corno Dolce, Soprano. | 34. Ripieno di quattio. | 36. Tromba, Soprano. |

*Pedal, 6 Stops.*

- |                                |          |                |          |
|--------------------------------|----------|----------------|----------|
| 37. ContraBasso, al La (toAAA) | 32 feet. | 40. Principale | 8 feet.  |
| 38. Principale                 | 8 feet.  | 41. Tromba     | 16 feet. |
| 39. Contra Basso               | 16 feet. | 42. Clarone    | 8 feet.  |

*Accessory Stops, Movements, &c.*

- |                                      |                                       |
|--------------------------------------|---------------------------------------|
| 1. Coupler, uniting all the Manuals. | 7, 8. Two Bird stops, on Echo Manual. |
| 2. Coupler, Great to Pedal.          | 9. Thunder, by means of a Pedal.      |
| 3, 4, 5. Three Composition Pedals.   | 10. Drum, by means of a Pedal.        |
| 6. Bells, on Choir Manual.           |                                       |

*Compass.*Great, CCC short to c<sup>3</sup> in alt.Swell, CC to c<sup>3</sup> in alt.Choir, CCC short to c<sup>3</sup> in alt.

Pedal, CCC short to tenor d.

## 144. GENEVA.

The organ in the Cathedral Church of St. Pierre, at Geneva, was built by Gerger about 150 years ago. It has 4 Manuals, a Pedal of 2 octaves, and 45 stops, of which the following is a list :—

*Great, 17 Stops.*

- |                       |               |                          |             |
|-----------------------|---------------|--------------------------|-------------|
| 1. Montre             | 16 feet.      | 10. Doublette            | 2 feet.     |
| 2. Grand Bourdon      | 16 feet tone. | 11. Tierce               | 1½ feet.    |
| 3. Huit Pieds Ouverte | 8 feet.       | 12. Cymballe.            |             |
| 4. Principal          | 8 feet.       | 13. Fourmiture.          |             |
| 5. Flute              | 8 feet.       | 14. Cornette, V ranks.   |             |
| 6. Bourdon            | 8 feet tone.  | 15. Trompette des dessus | 8 feet.     |
| 7. Prestant           | 4 feet.       | Trompette des bassus     | 8 feet.     |
| 8. Nazard             | 3 feet.       | 16. Clai on              | 4 feet.     |
| 9. Quarte de Nazard   | 2 feet.       | 17. Voix Humaine         | 8 feet tone |

*Choir, 10 Stops.*

18. Bourdon .....	8 feet.	23. Cymballe.	
19. Prestant.....	4 feet.	24. Fourniture.	
20. Flute .....	4 feet.	25. Cornette.	
21. Doublette .....	2 feet.	26. Trompette .....	8 feet.
22. Tierce .....	1½ foot.	27. Crom Horn .....	8 feet tone.

*Echo, 6 Stops.*

28. Bourdon .....	8 feet tone.	31. Cornette, III ranks.	
29. Prestant.....	4 feet.	32. Trompette .....	8 feet.
30. Flute .....	4 feet.	33. Crom Horn.....	8 feet tone.

*Orgue de Recit., 6 Stops.*

34. Bourdon .....	8 feet tone.	37. Doublette .....	2 feet.
35. Flute Allemande .....	8 feet.	38. Cornette, IV ranks.	
36. Prestant.....	4 feet.	39. Trompette .....	8 feet.

*Pedal, 6 Stops.*

40. 16 Pieds Ouverte, to GG...	16 feet.	43. Bombarde .....	16 feet.
41. Bourdon .....	16 feet tone.	44. Trompette .....	8 feet.
42. Huit Pieds Ouverte.....	8 feet.	45. Clairon.....	4 feet.

*Accessory Stops, Movements, &c.*

1. Coupler, Positif to Great.		2. Coupler, Great to Pedal.
-------------------------------	--	-----------------------------

*Compass.*

Great, CC to d <sup>5</sup> in alt.	Echo, Middle c <sup>1</sup> to d <sup>5</sup> in alt.
Positif, CC to d <sup>5</sup> in alt.	Pedal, CCC to tenor c.
Orgue de Recit, Fiddle g to d <sup>5</sup> in alt.	

## 145. SIENA.

The organ in the cathedral is very small, yet a very effective instrument. It has but 1 Manual and 14 stops, of which the following is a list :—

*Manual, 11 Stops.*

1. Principale, Soprano.	6. Vigesima seconda.
Principale, Basso.	7. Ripieno di quattro.
2. Flauto Traverso.	8. Cornetto di cinque.
3. Ottava.	9. Tromba, Soprano e Basso.
4. Decima quinta.	10. Corno Inglese.
5. Decima nona.	11. Voce Umana (not a Reed).

*Pedal, 3 Stops.*

12. Contra Bassi, al La (AAA) 32 feet.	14. Rinforza de Contra Bassi
13. Contra Bassi, al La (AA)... 16 feet.	(Trombone) ..... 16 feet.

*Compass.*

Manual, CCC short to d <sup>5</sup> in alt.	Pedal, CCC short to FF.
---	-------------------------

*Accessory Stops, Movements, &c.*

1, 2. Manual Couplers, octave above and below.	3. Manual to Pedal.
--	---------------------

## 146. SEVILLE.

The large organ in Seville Cathedral has frequently been extolled by tourists for its magnitude and great power. There are several organs in the cathedral, the two principal of which stand, sideways, one on each side of the choir, and opposite each other. Each of these has a complete and beautifully adorned front, both behind as well as before; and also a handsome "Choir organ in front," not

only towards the choir, but also another towards the aisle. The Reed stops which are unexampled for their number are placed outside the organs, and project horizontally from the several fronts in 2, 3, and 4 tiers. The largest pipes are uppermost, and are supported by iron bars. The mouths of the tubes are Trumpet-shaped.

The older of the two chief organs is the largest. According to most accounts, this has 110 stops and 5,300 pipes. It is evident, however, that many of the stops are, like those in the Italian organs just described, only "half stops." By no other means could such an aggregation of stops be accounted to comprise a number of pipes inferior to that contained in the Rotterdam, Weingarten, and some other organs, which have at the same time 30 or 40 stops less than the Seville organ. Still less could it otherwise be explained how there can be two "first" Mixtures, two "second" Mixtures, and so forth. The following account and translation of the large Seville organ has been prepared from memorandums made from the draw-stop handles by J. W. Fraser, Esq., of Manchester, and forwarded to Mr. Hill, the eminent organ-builder, who kindly furnished them to the writer. The figures, 13, 26, and 52, attached to certain stops, seem to correspond with the signs 8, 16, and 32, in the German tablature, in marking the size of the large Foundation stops:—

*Great, 42 Stops, 62 Draw Stops.*

1. Flauto de 26 .....	Double Diapason. (Treb.)
Flauto de 26 .....	Double Diapason. (Bass.)
2. Flauto de 26 .....	Double Diapason. (Treb.)
3. Violon de 26 .....	Gamba Major, or Double Gamba. (Treb.)
Violon de 26 .....	Gamba Major, or Double Gamba. (Bass.)
4. Tolosana de 26 .....	Double stop; probably either invented or first made at Toulouse, and hence named after that place.
5. Baxoncillo .....	Open Diapason. (T.) "Baxon" is a Bassoon and
Baxoncillo .....	Open Diapason. (B.) "illo" implies diminution;
6. Baxoncillo .....	Open Diapason. (T.) but the Baxoncillo stop is
Baxoncillo .....	Open Diapason. (B.) known to be the equivalent to
7. Baxoncillo .....	Open Diapason. (Treb.) the English Open Diapason.
8. Tapadillo .....	Stopped Diapason. (Treb.)
Tapadillo .....	Stopped Diapason. (Bass.)
9. Tapadillo .....	Stopped Diapason. (Treb.)
10. Flauta de 13 .....	Unison Flute. (Treb.)
Flauta de 13 .....	Unison Flute. (Bass.)
11. Flauta de 13 .....	Unison Flute. (Treb.)
12. Flauta Traversa .....	German Flute. (Treb.)
13. Violon de 13 .....	Gamba. (Treb.)
Violon de 13 .....	Gamba. (Bass.)
14. Violon de 13 .....	Gamba. (Treb.)
15. Tolosana .....	Unison stop. See No. 6 above.
16. Docena de 26 .....	Twelfth to the 26-feet stops.
	Fifth to the 13-feet stops. Quint.
17. Octava .....	Octave or Principal. (Treb.)
Octava .....	Principal. (Bass.)
18. Octava .....	Principal.
19. Docen y 26 <sup>o</sup> .....	Twelfth and 26th (Octave Larigot).
20. Quincena .....	Fifteenth.
21. Llano 1 <sup>o</sup> .....	First Mixture. (Treb.)
Llano 1 <sup>o</sup> .....	First Mixture. (Bass.)
22. Llano 2 <sup>o</sup> .....	Second Mixture. (Treb.)
Llano 2 <sup>o</sup> .....	Second Mixture. (Bass.)
23. Llano .....	Mixture.
24. Corneta .....	Cornet.
25. Corneta .....	Cornet.
26. Trompa de 52 .....	Double Double Trumpet.
27. Trompa de 26 .....	Double Trumpet. (Treb.)
Tromba de 26 .....	Double Trumpet. (Bass.)

28. Trompa Real .....	Royal or Grand Trumpet. (Treb.)
Trompa Real .....	Royal or Grand Trumpet. (Bass.)
29. Trompa Real .....	Royal or Grand Trumpet. (Treb.)
Trompa Real .....	Royal or Grand Trumpet. (Bass.)
30. Trompa de Batalla .....	Battle Trumpet. (Treb.)
Trompa Magna .....	Great Trumpet. (Bass.)
31. Trompa 8.....	Octave Trumpet, probably.
32. Oboe.....	Hautboy.
Fagot .....	Bassoon.
33. Cremona .....	Cremona.
34. Vox de 13 .....	Vox Humana.
35. Viejos .....	"Viejos," the eyebrows. This stop takes its name from the shape of the cover or plug at the top of the pipe.
36. Clarin Real .....	Royal or Grand Clarion. (Treb.)
Clarin Real .....	Royal or Grand Clarion. (Bass.)
37. Clarin Real .....	Royal or Grand Clarion.
38. Clarin de Batalla .....	Battle Clarion. (Treb.)
Clarin de Batalla .....	Battle Clarion. (Bass.)
39. Clarin Claro .....	Clear Clarion.
40. Clarin en 15 .....	Octave Clarion. (Treb.)
Clarin en 15 .....	Octave Clarion. (Bass.)
41. Clarin en 15 .....	Octave Clarion.
42. Orlo .....	Orlo, shawn; "Cink" of Dutch and "Zincke" of German organs. The original instrument exists only in the German saying: "In heaven the angels only play fiddles and shawns."

*Forte de Echo, 10 Stops; 12 Draw Stops.*

43. Baxoncillo .....	Open Diapason.
44. Tapadillo .....	Stopped Diapason.
45. Flauta Traverso .....	German Flute.
46. Flauta .....	Flute.
47. Corneta .....	Cornet.
48. Trompa Real .....	Grand Trumpet.
Trompa Magna .....	Great Trumpet.
49. Trompa Bastarda .....	"Bastarda," a piece of ordnance. [Trumpet. Bombarde or Great Reed. Probably a Double
50. Vox Contralto .....	Contralto Voice.
51. Oboe.....	Hautboy.
Fagot .....	Bassoon.
52. Clarin Sordina .....	Soft Clarion.

*Echo, 12 Stops; 14 Draw Stops.*

53. Baxoncillo .....	Open Diapason.
54. Tapadillo .....	Stopped Diapason.
55. Violon de 13 .....	Gamba.
56. Tolosana .....	Unison stop.
57. Flauto Traverso .....	German Flute.
58. Flauto de 13e 8va .....	Flute, of Octave as well as Unison pitch.
59. Docena.....	Twelfth.
60. Quincena .....	Fifteenth.
61. Lleno .....	Mixture.
62. Corneta .....	Cornet.
63. Trompa Real .....	Royal Trumpet.
Trompa Magna .....	Great Trumpet.
64. Vox de 13 .....	Vox Humana.
Vox Contralto .....	Contralto Voice.

*Contra Pedale, 7 Stops.*

65. Trompa de 26 .....	Trumpet of 26 feet.
66. Trompa de 26 .....	Trumpet of 26 feet.
67. Trompa de 15 .....	Trumpet of 13 feet.
68. Trompa de Octave .....	Octave Trumpet (6½ feet).
69. Trompa de 15 .....	Twelfth Trumpet (4½ feet).
70. Trompa en 15 .....	Fifteenth Trumpet (3½ feet).
71. Trompa en 17 .....	Tierce Trumpet.

*Compass.*Manuals, CC to g<sup>3</sup> in altissimo.

Pedal, One Octave.

The above organ has several more stops, the names of which are not on the stop-handles. These are probably Couplers, Wind-valves, and other Accessory stops.

Great .....	42 stops.	62 draw-stops.
Forte de Echo .....	10	12
Echo .....	12	14
Pedal .....	7	7
Couplers, wind-valves, &c.		15
	<hr/> 71	<hr/> 110

The mode of blowing the bellows of the above organ is peculiar. Instead of working with his hands, a man walks backwards and forwards along an inclined plane of about 15 feet in length, which is balanced in the middle on its axis. These communicate with five other pair, united by a bar; and the latter are so contrived that, when they are in danger of being overstrained, a valve is lifted up, and gives them relief.

Passing ten times along the inclined plane fills all these vessels, which are so ample that, when stretched, they supply the full organ fifteen minutes.

## 147. SEVILLE.

The second organ in Seville Cathedral has 71 draw-stops, 3 Manuals, and Pedal. The contents of the several Manual organs were not placed separately in the memorandum from which the following account was prepared :—

*Manual Stops.*

1. Violata .....	Small Viol, or Gambette.
2. Baxoncillo .....	Open Diapason.
3. Trompeta de Batalla .....	Battle Trumpet.
4. Viejos .....	See 35 in No. 146.
5. Orlo .....	Cink. A small Reed.
6. Clarin en 22 <sup>a</sup> .....	Super-octave Clarion.
7. Clarin en 15 <sup>a</sup> .....	Octave Clarion.
8. Clarin Claro .....	Clear Clarion.
9. Clarin de Campana .....	Hunting Horn.
10. Chirimia .....	Clarion.
11. Violata Suave .....	Soft Viola.
12. Baxoncillo .....	Open Diapason.
13. Trompeta en 15 .....	Octave Clarion.
14. Trompeta en 8 .....	Clarion.
15. Trompeta en 26 .....	Double Trumpet.
16. Mudo .....	Mute. Wind-valve?
17. Nasardo .....	Twelfth.
18. Corneta de 26 .....	Double Reed..... 26 feet.
19. Octava de Nasardo .....	Nineteenth, or Larigot.
20. Quincena Tapada .....	Stopped Fifteenth. Stopped Piccolo.
21. Octava Tapada .....	Stopped Octave. Stopped Flute.
22. Violon de 13 .....	Gamba.
23. Lleno de 8 .....	Mixture.
24. Diezmonovena .....	Nineteenth, or Larigot.
25. Quincena .....	Fifteenth.
26. Docena .....	Twelfth.
27. Octava .....	Octave, or Principal.
28. Flauta de 13 .....	Unison Flute.
29. Flautada de 13 .....	Large Unison Flute.
30. Flautada de 26 .....	Double Diapason.
31. Violon.	

32. Contra Baxo .....	Double Bass.
33. Clarin en 15 <sup>a</sup> .....	Octave Clarion.
34. Baxoncillo .....	Open Diapason.
35. Trompeta Real .....	Grand Trumpet.
36. Trompeta Real .....	Grand Trumpet.
37. Tolosana .....	Unison stop.
38. Llano .....	Mixture.
39. Diezmonovena .....	Nineteenth, or Larigot.
40. Quincena .....	Fifteenth.
41. Docena .....	Twelfth.
42. Octava .....	Octave.
43. Flautada de 13 .....	Large Unison Flute.
44. Preparacion .....	Preparation. Probably a wind-valve, or a bell to give notice to the blower.
45. Trompa .....	Trumpet.
46. Serpention .....	Great Serpent. Double Reed.
47. Vox Humana .....	Vox Humana.
48. Clarin en 15 .....	Octave Clarion.
49. Clarin de Sordino .....	Soft Clarion.
50. Clarinete .....	Clarinet.
51. Fagot .....	Bassoon.
52. Nasardo en 19 <sup>a</sup> .....	Twelfth and Larigot.
53. Nasardo en 17 <sup>a</sup> .....	Twelfth and Tierce. Sesquialtera.
54. Nasardo en 15 <sup>a</sup> .....	Twelfth and Fifteenth. Rausch-quint.
55. Llano .....	Mixture.
56. Diezmonovena .....	Larigot.
57. Quincena .....	Fifteenth.
58. Octava .....	Principal.
59. Violon de 13 .....	Gamba.

#### *Pedal, 9 Stops.*

60. Flautada de 26 .....	Great Flute or Diapason of ... 26 feet.
61. Contra de 26 .....	Double, of ... 26 feet.
62. Contra 8 .....	Double Octave.
63. Contra 15 .....	Double 15.
64. Contra 22 .....	Double 22.
65. Contra 29 .....	Double 29.
66. Bombarda de 26 .....	Great Reed ... 26 feet.
67. Bombarda de 13 .....	Great Reed ... 13 feet.
68. Contra de Clarin .....	Great Clarion ... 2½ feet.
69, 70, 71. Three stops without names.	

#### *Compass.*

Manuals, AA to c<sup>4</sup> alt., in 5½ octaves.

#### 148. COLOGNE CATHEDRAL.

An account of the Organ in Cologne Cathedral has already been given ; but a new one, of first-class dimensions, has been projected by A. W. Gottschalg, of which the following are the particulars :—

#### *Choir Organ, CC to G.*

1. Principal .....	16 feet.	12. Quint Flute .....	5½ feet.
2. Flute Conique .....	16 feet.	13. Gambette .....	4 feet.
3. Contra Fagotto .....	16 feet.	14. Octave Flute .....	4 feet.
4. Principal .....	8 feet.	15. Fugara .....	4 feet.
5. Double Gedackt .....	8 feet.	16. Viola .....	4 feet.
6. Salicional .....	8 feet.	17. Clarion Conique .....	4 feet.
7. Rohrflöte .....	8 feet.	18. Gemshorn Quinte .....	2½ feet.
8. Dolce .....	8 feet.	19. Wald Flute .....	2 feet.
9. Quintaton .....	8 feet.	20. Doublette .....	2 feet.
10. Bassoon and Clarinet ...	8 feet.	21. Cornet, V ranks.	
11. Trompette Harmonique...	8 feet.	22. Mixture, V ranks.	

*Great Organ, CC to G.*

23. Manual Untersatz (Sub-Bourdon) .....	32 feet.	37. Octave .....	4 feet.
24. Principal (Double Diapason) .....	16 feet.	38. Rohrflöte .....	4 feet.
25. Gamba .....	16 feet.	39. Gemshorn .....	4 feet.
26. Flauto Major .....	16 feet.	40. Clarion .....	4 feet.
27. Bombarde .....	16 feet.	41. Twelfth .....	2½ feet.
28. Principal, No. 1. (in English tin) .....	8 feet.	42. Fifteenth .....	2 feet.
29. Principal, No. 2. (small scale) .....	8 feet.	43. Clarinet, with divided lips.	
30. Viol di Gamba .....	8 feet.	44. Octave Fifteenth .....	1 foot.
31. Double Flute .....	8 feet.	45. Grand Cornet, V ranks (commencing with the Fifth above) .....	16 feet tone.
32. Fugara .....	8 feet.	46. Mixture, XV ranks (commencing with) .....	4 feet tone.
33. Hohlflöte .....	8 feet.	47. Mixture, V ranks (commencing with Twelfth).	
34. Tromba .....	8 feet.	48. Sharp Mixture, V ranks (commencing with Fifteenth).	
35. Trombone .....	8 feet.		
36. Quint .....	5½ feet.		

*Swell, CC to G.*

49. Bourdon .....	16 feet.	61. Rohr Quint .....	5½ feet.
50. Euphone .....	16 feet.	62. Violin Principal .....	4 feet.
51. Gemshorn .....	8 feet.	63. Traversflöte .....	4 feet.
52. Flute Harmonique .....	8 feet.	64. Dulciana .....	4 feet.
53. Keraulophon .....	8 feet.	65. Clarion .....	4 feet.
54. Bourdon .....	8 feet.	66. Piccolo Harmonique .....	2 feet.
55. Cor Anglais .....	8 feet.	67. Echo Cornet, V ranks, from	4 feet tone.
56. Bassoon Oboe .....	8 feet.	68. Sesquialtera, II ranks, Twelfth and Seventeenth.	
57. Vox Humana .....	8 feet.	69. Harmonia Ætheria, IV ranks, from Fifteenth.	
58. Voix Celeste .....	8 feet.		
59. Trompette Harmonique .....	8 feet.		
60. Viole d'Amour .....	8 feet.		

*Solo Organ, CC to G.*

70. Lieblich Gedackt .....	16 feet.	76. Tuba Mirabilis (with Swell Effect).	
71. Fernflöte (Distant Flute) .....	8 feet.	77. Klein Gedackt .....	4 feet.
72. Echo Dulciana .....	8 feet.	78. Orchestral Flute .....	4 feet.
73. Vox Angelica .....	8 feet.	79. Violin .....	4 feet.
74. Harmonica .....	8 feet.	80. Flageolet .....	2 feet.
75. Corno di Bassetto .....	8 feet.		

*Pedal Organ, CCC to D.*

81. Principal Bass (English tin, the ten largest pipes standing in the front) ..	32 feet.	93. Octave Bass .....	8 feet.
82. Grand Bourdon .....	32 feet.	94. Flute Bass .....	8 feet.
83. Contra Bombarde .....	32 feet.	95. Gedackt Bass .....	8 feet.
84. Contra Bass .....	16 feet.	96. Bassoon .....	8 feet.
85. Principal Bass .....	16 feet.	97. Trombone .....	8 feet.
86. Sub-Bass .....	16 feet.	98. Posaune .....	8 feet.
87. Violin Bass .....	16 feet.	99. Great Third .....	6½ feet.
88. Bourdon .....	16 feet.	100. Octave Quint .....	5½ feet.
89. Contra Fagotto .....	16 feet.	101. Fifteenth .....	4 feet.
90. Bass Trombone .....	16 feet.	102. Octave Flute .....	4 feet.
91. Quint Bass .....	10½ feet.	103. Juba Clarion .....	4 feet.
92. Violoncello .....	8 feet.	104. Cornet, V ranks (commencing from Fifteenth).	



*Accessory Stops.*

- |                                    |                                  |
|------------------------------------|----------------------------------|
| 1. Copulas—Choir to Pedals.        | 10. Copulas—Choir to Great.      |
| 2. " Great to Pedals.              | 11. Octave Copula on Solo.       |
| 3. " Swell to Pedals.              | 12. Octave Copula on Great.      |
| 4. " Solo to Pedals.               | 13. Sub-Octave Swell to Choir.   |
| 5. " Solo to Great.                | 14. Super-Octave Swell to Choir. |
| 6. " Solo to Swell.                | 15. Bellows Signal.              |
| 7. " Swell to Great.               | 16. Tremulant for Vox Humana     |
| 8. " Swell to Choir.               | of Swell.                        |
| 9. " Great to Pneumatic<br>Action. |                                  |

*Composition Pedals.*

- |  |  |
|--|--|
| 17. Closing Ventil for Pneumatic Stops of Pedals.  |  |
| 18. " " " Choir.   |  |
| 19. " " " Great.   |  |
| 20. " " " Swell.   |  |
| 21. " " " Solo.  |  |
| 22. Copula for Forte Pedal.  |  |
| 23. Combination for Piano on Pedal, Choir, Great, and Swell.   |  |
| 24. " Mezzo Forte on the same Organs.  |  |
| 25. " Forte on the same Organs.  |  |
| 26. " Fortissimo on the same Organs.   |  |
| 27. " Full Power on the Three Manuals and Pedal.   |  |
| 28. General Crescendo Pedal for the whole Organ.   |  |
| 29. Diminuendo " "   |  |
| 30. Swell Effect for the Three Manuals.  |  |
| 31. Combination for Swelling Tuba Mirabilis of Solo, and separate Swell of Vox<br>Humana and Bassoon of the Swell Organ. |  |

## 149. ST. PETER'S, ROME.

An organ of the first magnitude has been designed for the Cathedral Church of St. Peter, at Rome, by M. Aristide Cavaillé-Coll, the great organ-builder of Paris, to contain 124 sounding stops, 5 Manuals, of five octaves each, in compass, from CC to c in altmo., and a Pedal of 30 notes from CCC to tenor F. The following is a list of its proposed contents :—

*Pedal Organ.*

- |   |                                    |
|---|------------------------------------|
| 1. Principal Bass ..... 32 feet.                            | 12. Violoncello ..... 8 feet.      |
| 2. Front Bass (Double Open<br>Diapason), metal ... 32 feet. | 13. Stopped Flute ..... 8 feet.    |
| 3. Great Bourdon ..... 32 feet.                             | 14. Tierce ..... 6½ feet.          |
| 4. Acoustic Bass ..... 32 feet.                             | 15. Quint ..... 5½ feet.           |
| 5. Great Flute ..... 16 feet.                               | 16. Seventh ..... 4¾ feet.         |
| 6. Contra-Bass ..... 16 feet.                               | 17. Fifteenth ..... 4 feet.        |
| 7. Violone ..... 16 feet.                                   | 18. Contra-Bombarde ..... 32 feet. |
| 8. Sub-bass ..... 16 feet.                                  | 19. Bombarde ..... 16 feet.        |
| 9. Great Quint ..... 10¾ feet.                              | 20. Quint-Bombarde ... 10¾ feet.   |
| 10. Flute ..... 8 feet.                                     | 21. Trumpet ..... 8 feet.          |
| 11. Principal ..... 8 feet.                                 | 22. Clarion ..... 4 feet.          |

*First Manual: Great Organ (1st Division).*

23. Front Double Open Diapason .....	16 feet.	34. Octave .....	4 feet.
24. Bourdon .....	16 feet.	35. Twelfth .....	2 $\frac{3}{4}$ feet.
25. Front Open Diapason ...	8 feet.	36. Fifteenth .....	2 feet.
26. Harmonic Flute.....	8 feet.	37. Great Furniture, IV ranks.	
27. Diapason .....	8 feet.	38. Great Cymbal, V ranks.	
28. Viol di Gamba .....	8 feet.	39. Furniture, III ranks.	
29. Bourdon .....	8 feet.	40. Cymbal, IV ranks.	
30. Dulciana .....	8 feet.	41. Bassoon .....	16 feet.
31. Quint .....	5 $\frac{1}{2}$ feet.	42. Harmonic Trumpet ...	8 feet.
32. Principal.....	4 feet.	43. Bassoon .....	8 feet.
33. Flute .....	4 feet.	44. Clarion .....	4 feet.

*Great Choir (2nd Division).*

45. Acoustic Bass .....	16 feet.	53. Piccolo .....	2 feet.
46. Great Harmonic Flute ..	16 feet.	54. Cornet, V ranks .....	8 feet.
47. Violoncello .....	8 feet.	55. Sesquialtera, III ranks	8 feet.
48. Harmonic Flute.....	8 feet.	56. Tuba Magna .....	16 feet.
49. Diapason .....	8 feet.	57. Tuba Mirabilis.....	8 feet.
50. Unda Maris, tenor c ...	8 feet.	58. Quint Trumpet .....	5 $\frac{1}{2}$ feet.
51. Principal .....	4 feet.	59. Clarion ....	4 feet.
52. Flute .....	4 feet.	60. Octave Clarion .....	2 feet.

*Second Manual: Bombard Organ.*

61. Principal Bass .....	16 feet.	69. Great Tierce .....	3 $\frac{1}{2}$ feet.
62. Quintaton .....	16 feet.	70. Quint .....	2 $\frac{3}{4}$ feet.
63. Harmonic Flute .....	8 feet.	71. Seventh .....	2 $\frac{1}{2}$ feet.
64. Cone Flute .....	8 feet.	72. Octave (Fifteenth) .....	2 feet.
65. Keraulophon .....	8 feet.	73. Great Cornet, V ranks	16 feet.
66. Stopped Diapason .....	8 feet.	74. Bombard .....	16 feet.
67. Great Flute .....	4 feet.	75. Trumpet .....	8 feet.
68. Principal.....	4 feet.	76. Clarion ..	4 feet.

*Third Manual: Choir Organ.*

77. Violone .....	16 feet.	85. Dulciana .....	4 feet.
78. Bourdon .....	16 feet.	86. Twelfth .....	2 $\frac{3}{4}$ feet.
79. Traverse Flute .....	8 feet.	87. Fifteenth .....	2 feet.
80. Diapason .....	8 feet.	88. Full Mixture, V ranks	8 feet.
81. Salicional .....	8 feet.	89. Full Horn .....	16 feet.
82. Night-Horn .....	8 feet.	90. Harmonic Trumpet ....	8 feet.
83. Vox Angelica, tenor c ...	8 feet.	91. Crenona .....	8 feet.
84. Dulcet Flute .....	4 feet.	92. Bassoon and Oboe .....	8 feet.

*Fourth Manual: Swell Organ.*

93. Bourdon .....	16 feet.	101. Principal .....	4 feet.
94. Dulcet Horn .....	16 feet.	102. Flageolet .....	2 feet.
95. Harmonic Flute.....	8 feet.	103. Cornet, V ranks .....	8 feet.
96. Pavilion Flute .....	8 feet.	104. Bassoon .....	16 feet.
97. Gamba .....	8 feet.	105. Musette .....	8 feet.
98. Voix Celeste, tenor c ...	8 feet.	106. Vox Humana .....	8 feet.
99. Dulcette .....	4 feet.	107. Harmonic Trumpet .....	8 feet.
100. Flute .....	4 feet.	108. Harmonic Clarion .....	4 feet.

*Fifth Manual: Solo Organ.*

109. Sub-bass .....	16 feet.	117. Tierce .....	1 $\frac{3}{5}$ foot.
110. Conic-Flute .....	16 feet.	118. Larigot .....	1 $\frac{3}{5}$ foot.
111. Traverse-Flute Harmonic .....	8 feet.	119. Seventh .....	1 $\frac{1}{2}$ foot.
112. Diapason .....	8 feet.	120. Super-Piccolo .....	1 foot.
113. Quintaton .....	8 feet.*	121. Cor Anglais .....	16 feet.
114. Flute .....	4 feet.	122. Clarinette .....	8 feet.*
115. Twelfth .....	2 $\frac{3}{4}$ feet.	123. Harmonic Trumpet .....	8 feet.
116. Fifteenth .....	2 feet.	124. Violin Harmonic .....	4 feet.

*Combination Stops.*

There are 7 of these, one to each Clavier, with the exception of the Great, which has 2, one to each of its divisions. Each knob is present in duplicate on each side of the Manual, thus making, of course, 14 in all.

8. Bell.

*Composition Stops.*

There are 15 of these in all, 3 to the Pedale, 4 to the Great, and 2 to each of the remaining Manuals; one stop governs the foundation, or, as we would say, unison work, the other the mutation, chorus, and reeds; for the Pedale there is a further division into 32 and 16 feet. These stops are placed over the Solo Manual.

*Pedals of Effect.*

1. Storm Pedal.

*Coupling Pedals.*

2. Great to Pedals.
3. Great Choir to Pedals.
4. Bombarde to Pedals.
5. Choir to Pedals.
6. Swell to Pedals.
7. Solo to Pedals.
8. Sub-Octave to Great.
9. Sub-Octave to Bombarde.

10. Great to Pneumatic.
11. Great Choir to Pneumatic.
12. Bombarde to Great (Pneumatic).
13. Choir to Great.
14. Swell to Great.
15. Solo to Great.
16. Swell to Choir.
17. Solo to Bombarde.

*Tremulant Pedals.*

18. Tremulant to Swell.

| 19. Tremulant to Solo.

*Composition Pedals Proper.*

These do not act on arbitrary combinations, as with English work, but on previous arrangements prepared by hand at pleasure, and of course giving any composition that the stops admit of; there is thus necessity for but 7 of these, 2 to the Great, and 1 to each of the other Claviers.

*Swell Pedals.*

27. Swell Pedal.

| 28. Solo Pedal.

These 28 Pedals are to be arranged, properly grouped, in two rows, one above the other in the usual position.

---

\* We think this must be a misprint.

## 150. BOMBAY CATHEDRAL.

The following is a description of the large and fine organ built by Messrs. Bishop and Starr for the Cathedral, Bombay. The case and wood pipes are made of solid mahogany :—

*Great, 10 Stops; Compass, CC to G in alt.*

1. Open Diapason .....	8 feet.	6. Flute .....	4 feet.
2. Bell Diapason .....	8 feet.	7. Twelfth .....	3 feet.
3. Stopped Diapason, Bass ...	8 feet tone.	8. Fifteenth .....	2 feet.
4. Clarabella .....	8 feet tone.	9. Sesquialtera, III ranks.	
5. Principal .....	4 feet.	10. Trumpet .....	8 feet.

*Choir, 8 Stops; Compass, CC to G in alt.*

1. Dulciana .....	8 feet.	5. Metallic Flute .....	4 feet.
2. Stopped Diapason, Bass ...	8 feet tone.	6. Principal .....	4 feet.
3. German Flute .....	8 feet tone.	7. Piccolo .....	2 feet.
4. Keraulophon .....	8 feet.	8. Cremona .....	8 feet.

*Swell, 7 Stops; Compass, CC to G in alt.*

1. Double Diapason .....	16 feet tone.	5. Fifteenth .....	2 feet.
2. Open Diapason .....	8 feet.	6. Cornopean .....	8 feet.
3. Stopped Diapason .....	8 feet tone.	7. Hautboy .....	8 feet.
4. Principal .....	4 feet.		

*Pedal, 6 Stops; Compass, CCC to E.*

1. Open Diapason, Bass, wood	16 feet.	4. Principal, metal .....	8 feet.
2. Ditto, ditto, metal	16 feet.	5. Fifteenth, metal .....	4 feet.
3. Bourdon ...	16 feet tone.	6. Prepared for Reed.	

*Accessory Stops, Movements, &c.*

1. Great to Pedals.	6. Sub Swell to Choir.
2. Choir to ditto.	7. Super Swell to Great.
3. Swell to ditto.	8. Three Composition Pedals to Great.
4. Ditto to Great.	9. Two ditto ditto to Choir.
5. Ditto to Choir.	10. One ditto ditto to Swell.

## 151. BOMBAY.

The organ in the Town Hall, Bombay, was built by Messrs. Bishop and Starr. It has 4 Manuals, a separate Pedal, and 40 Sounding stops, of which the following is a list :—

*Great Organ, Compass CC to A, 58 notes.*

1. Sub Open Diapason .....	16 feet.	4. Principal .....	4 feet.
2. Open Diapason .....	8 feet.	5. Mixture (12th and 15th)	3 and 2 feet.
3. Clarabella (open through- out) .....	8 feet.	6. Sesquialtera, III and IV ranks .....	Various.

*Solo Great Organ, Compass CC to A, 58 notes.*

7. Bell Diapason (grooved in No. 8) .....	8 feet.	10. Wald Flute.....	4 feet.
8. Harmonic Flute .....	8 feet.	11. Harmonic Piccolo .....	2 feet.
9. Geigen Principal.....	4 feet.	12. Trumpet .....	8 feet.
		13. Clarion .....	4 feet.

The Solo organ is on the same Manual as the Great organ, but is on a higher pressure of wind. The same pneumatic pallet acts on both, by means of a novel mechanical arrangement.

*Swell Organ, CC to A, 58 notes.*

14. Lieblich Bourdon .....	16 feet.	20. Fifteenth.....	2 feet.
15. Open Diapason .....	8 feet.	21. Mixture, III ranks.....	Various.
16. Salicional (grooved into No. 15) .....	8 feet.	22. Contra-fagotto .....	16 feet.
17. Clarinet Flute .....	8 feet.	23. Cornopean .....	8 feet.
18. Principal .....	4 feet.	24. Hautboy .....	8 feet.
19. Lieblich Flute .....	4 feet.	25. Vox Humana .....	8 feet.

*Choir Organ, CC to A, 58 notes.*

26. Dulciana .....	8 feet.	31. Flageolet .....	2 feet.
27. Keraulophon .....	8 feet.	32. Orchestral Oboe, C .....	8 feet.
28. Suabe Flute .....	8 feet.	33. Cremona }	8 feet.
29. Salicet .....	4 feet.	34. Bassoon Bass }	
30. Hohl Flute .....	4 feet.		

*Pedal Organ, CCC to F, 30 notes.*

35. Grand Open Diapason,, metal .....	16 feet.	37. Grand Bourdon .....	16 feet.
36. Grand Open Diapason, wood.....	16 feet.	38. Grand Principal ...	8 feet.
		39. Grand Fifteenth .....	4 feet.
		40. Grand Bombarde .....	16 feet.

*Couplers, &c.*

1. Swell to Great.	5. Choir to Great.
2. Swell to Pedals.	6. Great to Pedal.
3. Swell to Choir.	7. Tremulant to Swell.
4. Choir to Pedals.	8. Sforzando.

49 to 57. Composition Pedals.

Four pairs of bellows with pressures of wind varying from 2½ to 5 inches.

C. K. K. Bishop's Patent Simplified Pneumatic Actions applied to the Great and Swell Manuals.

The interior metal pipes are of "Spotted Metal," except the Keraulophon, which contains a still higher percentage of tin.

The exterior metal pipes are of zinc, which metal will better sustain the shaking it will experience in its long voyage. The wood pipes are all of Mahogany.

The rest of the wood-work is of Mahogany, Oak, and Cedar, and is varnished throughout, to protect it from the effects of changes of climate.

The rollers are of tubular iron, the squares of gilded brass, and the wire-work of a metal made expressly for this organ instead of the usual tinned iron wire, which speedily rusts in India.

The bellows are provided with Messrs. Bishop and Starr's "Unalterable Pallet" for extreme climates, and all the leather-work is poisoned to protect it from the attacks of white ants.

## 152. TREMONT TEMPLE, BOSTON.

The following is an account of the large organ built by Messrs. E. and G. Hook for the Tremont Temple, United States, which is reprinted from the description circulated by the builders at the time of the opening of the instrument in 1854. The Swell is throughout, and there is an independent Pedal organ. Wind is supplied by three bellows at different pressures. It contains 70 registers, comprising every variety of tone, and embracing all the novelties of the most celebrated European organs.

It occupies a space at the end of the hall, 50 feet high and 50 feet wide, and is concealed by an open-work screen. The following are the stops in this instrument :—

*Great, 15 Stops; Compass, CC to A in alt., 58 Notes.*

- |                             |                             |
|-----------------------------|-----------------------------|
| 1. Tenoroon, Open Diapason. | 9. Grand Fifteenth.         |
| 2. Grand Open Diapason.     | 10. Fifteenth.              |
| 3. Open Diapason.           | 11. Sesquialtera, II ranks. |
| 4. Melodia.                 | 12. Mixture, III ranks.     |
| 5. Stopped Diapason.        | 13. Furniture, IV ranks.    |
| 6. Grand Principal.         | 14. Trumpet.                |
| 7. Principal.               | 15. Clarion.                |
| 8. Twelfth.                 |                             |

*Choir, 10 Stops; Compass, CC to A in alt., 58 Notes.*

- |                       |                         |
|-----------------------|-------------------------|
| 16. Open Diapason.    | 21. Mixture, III ranks. |
| 17. Dulciana.         | 22. Hohl Flute.         |
| 18. Stopped Diapason. | 23. Viol d'Amour.       |
| 19. Principal.        | 24. Clarionet.          |
| 20. Fifteenth.        | 25. Bassoon.            |

*Swell, 15 Stops; Compass, CC to A in alt., 58 Notes.*

- |                       |                              |
|-----------------------|------------------------------|
| 26. Sub-bass.         | 34. Fifteenth.               |
| 27. Double Diapason.  | 35. Sesquialtera, III ranks. |
| 28. Open Diapason.    | 36. Trumpet, Bass.           |
| 29. Viol di Gamba.    | 37. Trumpet, Treble.         |
| 30. Stopped Diapason. | 38. Hautboy.                 |
| 31. Principal.        | 39. Clarion.                 |
| 32. Night Horn.       | 40. Double Trumpet.          |
| 33. Twelfth.          |                              |

*Solo, 6 Stops; Compass, CC to A in alt., 58 Notes.*

- |                    |                 |
|--------------------|-----------------|
| 41. Horn Diapason. | 44. Wald Flute. |
| 42. Gamba.         | 45. Piccolo.    |
| 43. Clarabella.    | 46. Trumpet.    |

*Pedal, 10 Stops; Compass, CCC to D, 27 Notes.*

- |  |                               |
|--|-------------------------------|
| 47. Double Diapason ..... 32 feet.     | 52. Violoncello ..... 8 feet. |
| 48. Bourdon ..... 16 feet.             | 53. Quint ..... 6 feet.       |
| 49. Open Diapason, wood ... 16 feet.   | 54. Principal ..... 4 feet.   |
| 50. Open Diapason, metal..... 16 feet. | 55. Trombone..... 8 feet.     |
| 51. Open Diapason..... 8 feet.         | 56. Posaune ..... 16 feet.    |

*Accessory Stops, Movements, &c.*

- |                                  |                                      |
|----------------------------------|--------------------------------------|
| 1. Swell to Great, Unison.       | 8. Great to Pedals.                  |
| 2. Swell to Great, Super-octave. | 9. Choir to Pedals.                  |
| 3. Choir to Great, Sub-octave.   | 10. Pedal Octaves.                   |
| 4. Swell to Choir, Unison.       | 11. Pedal Bourdon, Separation.       |
| 5. Swell to Solo, Unison.        | 12. Pedal Open Diapason, Separation. |
| 6. Solo to Great, Unison.        | 13. Solo Organ Signal.               |
| 7. Swell to Pedals.              | 14. Bellows Signal.                  |

## 153. MUSIC HALL, BOSTON.

The grand organ in the Music Hall, Boston, United States (described as the "Great Monster Organ of the New World"), was built by E. F. Walcker and Son, of Ludwigsburg, Wurtemberg. It was begun in 1857, and finished in 1863.

Some of the most important stops are the Bifra, in the Choir, with its double set of pipes and Tremolo; the Physsharmonica, in the Choir, a free Reed without pipes, with a Swell of its own; the great Mixture of 5 ranks in the Pedal, which gives a ground tone of 32 feet in Harmonics, Sub-bass 16 feet, Quint  $10\frac{2}{3}$  feet, Octave 8 feet, Tenth  $5\frac{1}{3}$  feet, and Fifteenth 4 feet; and a Vox Humana in the Solo, with double pipes, Swell, and Tremulant of its own.

There are six pairs of large bellows-feeders, which gather the wind into a huge reservoir containing about 400 cubic feet. There are several smaller ones, distributors, making in all fifteen pairs of bellows. These are worked by a machine, which is propelled by water derived from the reservoirs. The case, or *orgel-gehause*, is of black walnut, and is covered with carved statues, busts, masks, and figures in bold relief. It is about 47 feet in width; the two projecting central towers are 60 feet high.

The following is a synopsis of the contents of this organ:—

*Great, 25 Stops.*

- |   |          |   |                      |
|---|----------|---|----------------------|
| 1. Principal, or Double Diapason .....  | 16 feet. | 16. Flute d'Amour, of pine and pear-wood, slender   | 4 feet.              |
| Of pure English tin; the 24 largest pipes displayed in front.   |          | 17. Clairon (Clarion) .....   | 4 feet.              |
| 2. Tilia Major .....  | 16 feet. | Reed stop, of proof tin, trumpet-like; in the highest octave 2 open flue pipes in unison replace the Reeds. |                      |
| Of pine wood; borrows the lower octave from Principal.  |          | 18. Waldflöte (Flute of the Woods), proof tin .....   | 2 feet.              |
| 3. Viola Major .....  | 16 feet. | 19. Quint (Fifth), proof tin ..   | $5\frac{1}{3}$ feet. |
| 4. Basson (Bassoon) } .....   | 16 feet. | 20. Terz (Tenth), proof tin ..  | $3\frac{1}{3}$ feet. |
| 5. Ophicleid .... }   | 8 feet.  | 21. Quintflöte (Flute Twelfth), proof tin .....   | $2\frac{2}{3}$ feet. |
| Complements to each other. Free Reeds, tuned by a screw. Chiefly of wood, but bells of upper octaves tin. |          | 22. Terz Discant (Seventeenth), proof tin .....   | $1\frac{1}{3}$ foot. |
| 6. Principal (Diapason) .....   | 8 feet.  | 23. Cornet, V ranks .....   | $5\frac{1}{3}$ feet. |
| 7. Flöte (Flute) .....  | 8 feet.  | Harmonics of 16 feet tone; take their ground tones from Quint. Compass from G to A <sub>3</sub> , 38 notes. |                      |
| Wood, double width, with double mouths.   |          | 24. Mixtur, VI ranks .....  | $2\frac{2}{3}$ feet. |
| 8. Gemshorn .....   | 8 feet.  | Harmonics of 8 feet tone. Proof tin.  |                      |
| 9. Viola di Gamba, pure tin   | 8 feet.  | 25. Scharff, IV ranks .....   | $1\frac{1}{3}$ foot. |
| 10. Gedackt (Stop Diapason)   | 8 feet.  | Harmonics of 4 feet tone. Proof tin.  |                      |
| 11. Trombone .....  | 8 feet.  |   |                      |
| 12. Trumpet, of proof tin .....   | 8 feet.  |   |                      |
| 13. Octave (Engl. Principal), pure tin.   |          |   |                      |
| 14. Fugara, pure tin .....  | 8 feet.  |   |                      |
| 15. Hohlflöte (hollow-toned flute), metal .....   | 4 feet.  |   |                      |

*Choir, 15 Stops.*

- |  |             |  |                                       |
|--|-------------|--|---------------------------------------|
| 26. Gedackt .....  | 16 feet.    | 33. Viola, proof tin .....   | 8 feet.                               |
| 27. Principal Flute .....  | 8 feet.     | Of soft intonation, like the piano in Physsharmonica.                          |                                       |
| Pure English tin; large pipes displayed.   |             | 34. Physsharmonica .....   | 8 feet.                               |
| 28. Spitzflöte .....   | 8 feet.     | Purely metal Reeds with a Swell.   |                                       |
| A pointed or conical flue of tin.  |             | 35. Hohlspife .....  | 4 feet.                               |
| 29. Bifra, II ranks .....  | 8 & 4 feet. | Lowest octaves of maple, the rest of metal. Very bright and liquid flute tone. |                                       |
| Of tin; each note has a pipe, one stopped, the other (its octave) open and slender. It has also a Tremolo. |             | 36. Principal Flute, tin .....   | 4 feet.                               |
| 30. Gedackt, wood .....  | 8 feet.     | 37. Dolce (Dulciana), tin .....  | 4 feet.                               |
| 31. Clarin Bass .....  | 4 feet.     | 38. Flautino (Octave Flute) ..   | 2 feet.                               |
| 32. Clarin Discant .....   | 4 feet.     | 39. Sesquialtera, II ranks ..  | $2\frac{2}{3}$ & $1\frac{1}{3}$ feet. |
| Reeds, trum et-like, of proof tin.   |             | 40. Super-octave, tin .....  | 1 foot.                               |

*Swell, 18 Stops.*

41. Bourdon (Double Stop Diapason).....	16 feet.	50. Hautbois (Oboe).....	8 feet.
42. Principal, proof tin .....	8 feet.	51. Principal Octave, proof tin .....	4 feet.
43. Salicional .....	8 feet.	52. Rohrflöte .....	4 feet.
Proof tin, slender. Tone like a Dulciana of reedy quality, but a little stronger.		What English builders call a "half-stopped pipe," of metal. French: <i>Flûte-à-Cheminée</i> .	
44. Dolce (Dulciana).....	8 feet.	53. Traversflöte (Traverse Flute) .....	4 feet.
Of metal; one of the softest stops.		The lowest octaves of fir and pear-wood, square, slender. The rest of maple, turned, like the actual German flute: double length, pierced in the middle, and overblown, <i>i.e.</i> , sounding the octave.	
45. Quintaton .....	8 feet.	54. Cornettino .....	4 feet.
A stop pipe of tin, sounding its Harmonic Fifth (or Twelfth) with the ground tone.		Soft, trumpet-like, of tin, 12 highest pipes doubled, and flue pipes.	
46. Gedackt (Stop Diapason) .....	8 feet.	55. Quintflöte .....	5½ feet.
Wood, double width, double mouths in upper octaves. Very full round tone, with other stops.		56. Nasard (Twelfth), tin .....	2½ feet.
47. Trombone Bass (Trombone) .....	8 feet.	57. Octave, tin .....	2 feet.
48. Trombone Disc. (Trumpet), bells of brass .....	8 feet.	58. Mixtur, V ranks .....	2 feet.
49. Bassoon Bass (Bassoon) ...	8 feet.		

*Solo, 11 Stops.*

59. Bourdon (Stopped Diapason).....	16 feet.	64. Vox Humana .....	8 feet.
Two lowest octaves of wood, the rest of metal.		Of metal, with two pipes to each note, one of them a Reed pipe, and partly with double reeds. Also has a special Swell and Tremulant.	
60. Gamben Principal, pure tin .....	8 feet.	65. Gemshorn, proof tin .....	4 feet.
61. Æoline .....	8 feet.	66. Piffaro, 11 ranks .....	4 & 2 feet.
The softest and most string-like stop of all; lower octave of wood, continuation, of proof tin, very slender.		67. Vox Angelica .....	4 feet.
62. Concert Flute .....	8 feet.	68. Quint .....	2½ feet.
Of finest pine-wood, square. From C upward double length, pierced, and blowing the octave.		A covered pipe of metal.	
63. Corno Bassetto .....	8 feet.	69. Piccolo (Octave Flute), metal.....	2 feet.
Reed stop of clarinet-like tone; bells of tin.			

*Pedal, 20 Stops.*

70. Principal Bass (Double Double Diapason).....	32 feet.	77. Octave Bass, tin.....	8 feet.
Six of the largest pipes of pure English tin, the rest of wood.		78. Hohlflöten Bass (Hollow Flute Bass) .....	8 feet.
71. Grand Bourdon, V ranks....	32 feet.	79. Violoncello, tin .....	8 feet.
A compound stop, having for foundation Sub-bass 16 feet, which, with four ranks of Harmonic tones, gives the 32 feet sound.		80. Trumpet .....	8 feet.
72. Bombardon .....	32 feet.	81. Corno-Basso .....	4 feet.
A monster Reed tone, with screw tuning apparatus.		82. Octave, tin .....	4 feet.
73. Octave Bass .....	16 feet.	83. Cornettino, tin .....	2 feet.
Pure tin; 13 pipes in front.		N.B.—The following stops are placed in the Swell-box.	
74. Sub-bass .....	16 feet.	84. Bourdon (Double Stopped Diapason).....	16 feet.
Strong wood, open, of very wide scale.		85. Viola .....	8 feet.
75. Trombone.....	16 feet.	Of tin; soft Gamba tone.	
Powerful Reed tone; bells of zinc.		86. Flute, wood.....	8 feet.
76. Contra Violon, wood .....	16 feet.	87. Flute .....	4 feet.
		88. Basson (Bassoon) .....	16 feet.
		A very powerful deep Reed tone, tuned with screw.	
		89. Waldflöte, metal .....	2 feet.

There are 12 Pedal combination movements for producing various changes and connections.



- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Zungen Stimmen, draws all the Reeds of the Great organ.</li> <li>2. Fortissimo Hauptwerk, draws all the Great organ except Scharff, Cornet, and Reeds.</li> <li>3. Forte Hauptwerk, draws one 16 feet, five 8 feet, and four 4 feet stops of the Great organ.</li> </ol> | <ol style="list-style-type: none"> <li>4. Piano Hauptwerk, draws the 8 feet stops of the Great organ.</li> <li>5. Solo Orgel, draws Corno and Bassetto of Solo organ.</li> <li>6. Volleswerk, draws Full organ.</li> <li>7 to 12. Pedal Couplers.</li> </ol> |
|--|--|

There is, situated over the Manuals of the Great organ, within the reach of the thumbs of the performer, a set of small knobs—couplers—which control the couplings of the several Manuals. One of the most important mechanical contrivances is the crescendo and diminuendo Pedal, by which the performer is enabled to bring out, one by one, *ad. lib.*, each stop of the organ to its fullest capacity, and *vice versâ*.

Over the Manuals, on a tablet of black marble, in letters of gold is this inscription :—

E. F. WALCKER & CO.  
LUDWIGSBURG, KDM. WURTEMBERG.  
O. P. C. C.  
BEGUN, FEB. 1857. FINISHED, OCT. 1863.

#### 154. NEW YORK.

The new organ in Trinity Church, New York, was built by Mr. Henry Erben in 1846, from a specification prepared by Dr. Hodges, and has recently been enlarged by the same firm. It has now 39 sounding stops and 11 Couplers ; 3 Manual organs, of 16, 8, and 4 feet compass respectively ; a Swell Bass of 2 stops, and a 32-feet Pedal stop. The instrument, which stands at the west end of the church, is enclosed in a bold Gothic case, designed by Richard Upjohn, Esq., the architect of the church. The Choir organ is in front, and has an 8-feet speaking front ; while the Great organ has a 16-feet speaking front. All the Manuals descend to CCC, 16 feet ; and the Swell ascends an extra octave also. The following is a list of the stops in the above-named instrument :—

#### *Great Organ.*

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Strong Open Diapason.</li> <li>2. Clear Open Diapason.</li> <li>3. Stopped Diapason.</li> <li>4. Strong Principal.</li> <li>5. Bright Principal.</li> <li>6. Flute.</li> </ol> | <ol style="list-style-type: none"> <li>7. Double Octave.</li> <li>8. Twelfth.</li> <li>9. Sesquialtera.</li> <li>10. Mixture.</li> <li>11. Trumpet.</li> <li>12. Clarion.</li> </ol> |
|--|--|

#### *Choir Organ.*

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>13. Stopped Diapason.</li> <li>14. Dulciana.</li> <li>15. Principal.</li> <li>16. Flute.</li> </ol> | <ol style="list-style-type: none"> <li>17. Fifteenth.</li> <li>18. Clarionet.</li> <li>19. Bassoon.</li> </ol> |
|--|--|

#### *Swell Organ.*

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>20. Double Diapason.</li> <li>21. Open Diapason.</li> <li>22. Dulciana.</li> <li>23. Stopped Diapason.</li> <li>24. Principal.</li> </ol> | <ol style="list-style-type: none"> <li>25. Cornet.</li> <li>26. Hautboy.</li> <li>27. Trumpet.</li> <li>28. Vox Humana.</li> </ol> |
|--|--|

*Swell Bass.*

29. Dulciana.

30. Serpent.

*Solo Organ.*

31. Double Diapason.

35. Harmonic Flute.

32. Horn Diapason.

36. Tuba Mirabilis.

33. Gamba.

37. Cornopean.

34. Melodia.

*Pedal Organ.*

38. Grand Double Open Diapason.

39. Grand Open Diapason.

*Couplers.*

1. Swell to Great.

7. Great to Pedal, 8 feet pitch.

2. Swell and Great at octaves.

8. Choir to Pedal.

3. Swell to Choir.

9. Swell Bass to Pedal.

4. Choir to Great.

10. Pedal pipes in 32 feet pitch.

5. Choir and Swell at octaves.

11. Pedal pipes in 16 feet pitch.

6. Great to Pedal, 16 feet pitch.

*Compass.*Great, CCC to f<sup>3</sup> in alt., 66 keys, 16 feet compass.Choir, CC to f<sup>3</sup> in alt., 54 keys, 8 feet compass.Swell, tenor c to f<sup>4</sup> in alt., 54 keys, 4 feet compass.

Swell Bass, two octaves.

Pedal Stop, CCCC to tenor c, 37 pipes, 32 feet compass.

Pedal Clavier, CCC to tenor c, 25 keys.

## 155. NEW YORK.

The organ in the Church of the Annunciation, New York, United States, was built by George Jardine, of New York, in 1853. It contains 3 Manual organs, of 8 feet compass, and a separate Pedal, and also 30 sounding stops. The following is a list of its contents :—

*Great, 9 Stops.*

1. Double Diapason .....	16 feet.	6. Twelfth .....	2½ feet.
2. Open Diapason .....	8 feet.	7. Fifteenth .....	2 feet.
3. Stopped Diapason .....	8 feet tone.	8. Sesquialtera, IV ranks.	
4. Melodia .....	8 feet.	9. Trumpet ....	8 feet.
5. Principal .....	4 feet.		

*Choir, 8 Stops.*

10. Open Diapason .....	8 feet.	14. Flute .....	4 feet tone.
11. Viola di Gamba .....	8 feet.	15. Fifteenth .....	2 feet.
12. Stopped Diapason .....	8 feet tone.	16. Clarinet, Treble .....	8 feet tone.
13. Principal .....	4 feet.	17. Bassoon, Bass.....	8 feet.

*Swell, 10 Stops.*

18. Bourdon .....	16 feet tone.	23. Fifteenth .....	2 feet.
19. Open Diapason .....	8 feet.	24. Mixture, III ranks.	
20. Stopped Diapason .....	8 feet tone.	25. Trumpet .....	8 feet.
21. Dulciana .....	8 feet.	26. Oboe .....	8 feet.
22. Principal .....	4 feet.	27. Clarion .....	4 feet.

*Pedal, 3 Stops.*

28. Open Diapason .....	16 feet.	30. Octave .....	8 feet.
29. Bourdon .....	16 feet tone.		

*Couplers.*

1. Swell to Great.	6. Great to Pedal.
2. Swell Octave to Great.	7. Choir to Pedal.
3. Swell to Choir.	8. Swell to Pedal.
4. Choir to Great.	9. Pedal Organ Octave.
5. Choir Sub-octave to Great.	

*Compass.*

Great, CC to f <sup>3</sup> in alt.	Swell, CC to f <sup>3</sup> in alt.
Choir, CC to f <sup>2</sup> in alt.	Pedal, CCC to tenor c.

By means of Mr. G. Jardine's pallet the touch is relieved from all disagreeable stiffness, although there are 5 Manual Couplers, upwards and downwards, as well as in the unison.

## 156. NEW YORK.—BROOKLYN TABERNACLE.

This admirable organ was built by Messrs. Jardine and Son, and consists of (1) Great Organ, divided into three compartments, namely, Diapason Organ, Chorus Organ, and Solo Organ, controlled by eight piston combination knobs; (2) a Swell Organ; (3) an Orchestral Organ; and (4) a separate Pedal Organ. The dimensions of the organ are 50 feet wide, 14 feet deep, and 50 feet high. The bellows are supplied by three hydraulic engines. There are altogether fifty-two registers, of which the following are the details:—

*Great Organ.*

1. Double Open Diapason, metal, deep tone .....	16 feet.	4. Doppel Diapason, wood, very full and pervading	8 feet.
2. Open Diapason Major, metal, full sonorous .....	8 feet.	5. Melody Diapason, wood, clear and ringing .....	8 feet.
3. Open Diapason minor, metal, clear and round	8 feet.		

*Chorus Organ.*

6. Quint, metal, harmonic in- tonation .....	6 feet.	10. R. Cymbal, metal, con- sisting of the 17th and 19th tones above the Diapasons.....	
7. Principal, metal, round yet clear tone .....	4 feet.	11. R. Scsqualtera. metal, 15th, 22nd, and 29th tones, and breaking into 8th, 12th, and 15th tone	2 feet.
8. Nasard, metal, round and subdued tone .....	3 feet.		
9. Piccolo, metal, round and brilliant .....	2 feet.		

*Solo Organ.*

- |  |         |  |         |
|--|---------|--|---------|
| 12. Gamba, metal, crisp, light tone .....        | 8 feet. | 14. Harmonic, pure and imitative ..... | 4 feet. |
| 13. Dulcissima, metal, sweet, singing tone ..... | 8 feet. | 15. Clarionet, very orchestral .....   | 4 feet. |
|  |         | 16. Trumpet, round and mellow .....    | 8 feet. |
|  |         | 17. Quint .....                        |         |

*Second Manual, or Swell.*

- |   |          |  |              |
|---|----------|--|--------------|
| 18. Bourdon, wood and metal, deep, pervading tone ... | 16 feet. | 25. R. Cornet, metal, very rich  | 3 or 4 feet. |
| 19. Open Diapason, metal, very full .....             | 8 feet.  | 26. Cornopean, metal, new scale, very round and mellow .....                       | 8 feet.      |
| 20. Clariona, metal, reedy, clear                     | 8 feet.  | 27. Oboe with Bassoon, imported reeds, new scale                                   | 8 feet.      |
| 21. Clarionet Flute, wood and metal, round and pure   | 8 feet.  | 28. Vox Humana, metal, imported reeds, this new score from Cavaille of Paris ..... | 8 feet.      |
| 22. Dulciana, metal, very delicate .....              | 8 feet.  | 29. Echo Flute, distant, soft tone .....   | 4 feet.      |
| 23. Violono, metal, brilliant tone                    | 4 feet.  |  |              |
| 24. Piccolo, metal, brilliant tone .....              | 2 feet.  |  |              |

*Third Manual, Orchestral Organ.*

- |  |         |  |         |
|--|---------|--|---------|
| 30. Song Trumpet, metal . . .                          | 8 feet. | 32. Horn, metal, clear and ringing . . . . . | 8 feet. |
| 31. Concert Flute, wood, a stop of immense power ..... | 8 feet. | 33. Flute à Pavillon, sparkling tone .....   | 4 feet. |

*Pedal Organ.*

- |   |          |  |          |
|---|----------|--|----------|
| 34. Open Diapason, powerful and deep .....        | 16 feet. | 38. Violoncello, stringy and imitative .....     | 8 feet.  |
| 35. Violin, metal, rich, deep tone                | 16 feet. | 39. Flute, metal, round and orchestral . . . . . | 4 feet.  |
| 36. Contra-Bourdon; pervading, full .....         | 16 feet. | 40. Trombone, metal, pure and broad tone .....   | 16 feet. |
| 37. Gross-Quint, wood producing 32 feet effect .. | 12 feet. |  |          |

*Pneumatic Piston Knobs.*

- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| 1. Open Diapason major, mezzo power. | 5. Diapason Organ, forte power.      |
| 2. Gamba, piano power.               | 6. Solo Organ, fortissimo power.     |
| 3. Dulcissima, pianissimo power.     | 7. Solo and Diapason Organ, FF.      |
| 4. Harmonic Flute, mezzo power.      | 8. Diapason, Solo, and Chorus Organ. |

*Bells.*

- 8 feet. 2½ octaves of real Bells, operated by the Swell or Great Organ keyboards; they are struck with a piano action, are imported by the maker, 32 Bells.
- 8 feet. Sharp effect on Bells.

*Couplers.*

- |                                 |             |
|---------------------------------|-------------|
| 1. Swell Manual to Great Organ. | 3. Bellows. |
| 2. Orchestral to Great Manual.  |             |

These Couplers, made on an improved system, are free from friction.

*Pedals of Combinations.*

1. Great Manual to Pedal.

2. Orchestral to Pedal.

3. Swell Manual to Pedal.

1. The Sforzando Pedal is a new effect introduced, by which, in a moment, from the softest effect the full power of the organ can be thrown on.

2. Balance Swell Pedal with vertical shades, introduced from Europe.

*Summary.*

Great Organ Manual—

Sub-divisions.	Diapason Organ .....	5 registers.
	Chorus Organ .....	6 registers.
	Solo Organ .....	5 registers.
	Piston Combination .....	8 registers.
Swell Organ (Manual) .....		12 registers.
Orchestral Organ (Manual) .....		4 registers.
Bells, 32 .....		2 registers.
Couplers .....		3 registers.
Pedals of Combination, 5 .....		
Total : 32 Bells ; 5 Pedals ; 52 Registers.		

## 157. TRINITY CHAPEL, NEW YORK.

The organ in Trinity Chapel was built by Messrs. J. H. & C. S. Odell from a specification prepared by Mr. W. B. Gilbert. It contains the 33 sounding stops, &c., mentioned below :—

*Great Organ.*

1. Contra Gamba, .....	16 feet.	6. Twelfth .....	3 feet.
2. Stopped Diapason .....	8 feet.	7. Fifteenth .....	2 feet.
3. Open Diapason .....	8 feet.	8. Sesquialtera, IV ranks, pure tin,	
4. Gamba .....	4 feet.	9. Trumpet, pure tin .....	8 feet.
5. Principal .....	4 feet.	10. Clarion „ .....	4 feet.

*Swell Organ.*

11. Bourdon .....	16 feet tone.	17. Principal .....	4 feet.
12. Stopped Diapason .....	8 feet.	18. Mixture, IV ranks.	
13. Dulciana .....	8 feet.	19. Oboe .....	8 feet.
14. Salicional .....	8 feet.	20. Cornopean .....	8 feet.
15. Open Diapason .....	8 feet.	21. Contra Trumpet .....	16 feet.
16. Dulcet Flute.....	4 feet.		

*Choir Organ.*

22. Melodia .....	8 feet.	25. Concert Flute.....	4 feet.
23. Dolce .....	8 feet.	26. Principal .....	4 feet.
24. Keraulophon .....	8 feet.	27. Clarionette .....	8 feet.

*Pedal Organ.*

28. Sub-Bourdon .....	32 feet tone.	31. Open Diapason .....	16 feet.
29. Bourdon .....	16 feet.	32. Violoncello .....	8 feet.
30. Bell Gamba .....	16 feet.	33. Trombone .....	16 feet.

*Couplers, &c.*

1. Swell to Great.
2. Swell to Choir.
3. Choir to Pedal.

4. Great to Pedal.
5. Swell to Pedal.
6. Signal to blowers.

*Composition Pedals.*

Three double action on Great Organ.

Two double action on Swell Organ.

*Compass.*Manuals, CC to a<sup>3</sup>, 58 notes. Pedal, CCC to e, 29 notes.

## 158. CALIFORNIA.

The organ in the Presbyterian Church, Oakland, San Francisco, built by Messrs. Bevington and Son, has two Manuals, separate Pedal, and 24 sounding stops of which latter the following is a list :—

*Great Organ.*

1. Open Diapason .....	8 feet.	6. Fifteenth .....	2 feet.
2. Dulciana .....	8 feet.	7. Full Mixture, III ranks...	3 feet.
3. Claribel .....	8 feet.	8. Clarionet .....	} 8 feet.
4. Flute Harmonique .....	4 feet.	9. Bassoon .....	
5. Principal .....	4 feet.	10. Trumpet .....	8 feet.

*Swell Organ.*

11. Bourdon .....	16 feet.	17. Principal .....	4 feet.
12. Double Diapason .....	16 feet.	18. Twelfth .....	3 feet.
13. Open Diapason .....	8 feet.	19. Fifteenth .....	2 feet.
14. Lieblich Gedact .....	8 feet.	20. Cornopean .....	8 feet.
15. Bell Gamba .....	8 feet.	21. Oboe .....	8 feet.
16. Wald Flute .....	4 feet.		

*Pedal Organ.*

22. Great Open Diapason, wood	16 feet.	24. Bourdon .....	16 feet.
23. Great Open Diapason, metal	16 feet.		

*Couplers, &c.*

Swell to Great.  
Swell to Pedal.  
Swell Sub-Octave to Great.  
Swell Octave to Great.

Great to Pedal.  
Tremulant to Swell by Pedal.  
Three Composition Pedals to Great.  
Three Composition Pedals to Swell.

*Compass.*Manuals, CC to g<sup>3</sup>, 56 notes. | Pedal, CCC to F, 30 notes.

## 159. ST. JOHN'S CATHEDRAL, NEWFOUNDLAND.

The organ in St. John's Cathedral, Newfoundland, was built by Robson in 1853. It contains 46 sounding stops, as follows :—

*Great Organ, 16 Stops; Compass, CC to G in alt., 56 Notes.*

1. Double Diapason, Bass } Double Diapason	} 16 feet tone.	8. Twelfth .....	3 feet.
2. Large Open Diapason ...		9. Fifteenth .....	2 feet.
3. Open Diapason .....	8 feet.	10. Sesquialtera, III ranks.	
4. Stopped Diapason .....	8 feet tone.	11. Mixture, III ranks.	
5. Quint .....	6 feet.	12. Furniture, III ranks.	
6. Principal .....	4 feet.	13. Contra Fagotto .....	16 feet.
7. Tenth .....	3½ feet.	14. Posaune .....	8 feet.
		15. Clarion .....	4 feet.

*Choir Organ, 11 Stops; Compass, CC to G in alt., 56 Notes.*

16. Dulciana .....	8 feet.	22. Flute .....	4 feet.
17. Viol di Gamba .....	8 feet.	23. Piccolo .....	2 feet.
18. Stopped Diapason .....	8 feet tone.	24. Mixture, Dulciana Scale, III ranks.	
19. Clarabella Flute .....	8 feet.	25. Bassoon } .....	8 feet tone.
20. Celestina Viol .....	4 feet.	Clarinet }	
21. Principal .....	4 feet.		

*Swell Organ, 13 Stops; Compass, CC to G in alt., 56 Notes.*

26. Double Diapason, Bass } Double Diapason .....	16 feet tone.	32. Sesquialtera } Mixture ... }	V ranks.
27. Open Diapason .....	8 feet.	33. Horn .....	8 feet.
28. Stopped Diapason .....	8 feet tone.	34. Oboe .....	8 feet.
29. Principal .....	4 feet.	35. Clarion .....	4 feet.
30. Twelfth .....	3 feet.	36. Octave Clarion .....	2 feet.
31. Fifteenth .....	2 feet.		

*Pedal Organ, 6 Stops; Compass, CCC to F, 30 Notes.*

37. Open Diapason .....	16 feet.	40. Basso-flauto .....	8 feet tone.
38. Stopped Diapason .....	16 feet tone.	41. Trombone .....	16 feet.
39. Principal .....	8 feet.	42. Trumpet .....	8 feet.

*Couplers.*

1. Swell to Great.		3. Great to Pedals.
2. Ditto to Pedals.		4. Choir to ditto.

## 160. ST. PAUL, WELLINGTON, NEW ZEALAND.

This organ, comprising two complete Manuals and separate Pedal, was built by Mr. T. C. Lewis, and contains the following 17 sounding stops:—

*Great Organ, CC to G, 56 notes.*

1. Lieblich Gedact .....	16 feet.	5. Octave .....	4 feet.
2. Open Diapason .....	8 feet.	6. Flute .....	4 feet.
3. Lieblich Gedact .....	8 feet.	7. Mixture, III ranks .....	2 feet.
4. Salicional (tenor c, grooved for bass) .....	8 feet.		

*Swell Organ, CC to G, 56 notes.*

8. Rohrflöte .....	8 feet.	12. Geigen Principal .....	4 feet.
9. Geigen Principal .....	8 feet.	13. Flautina .....	2 feet.
10. Viol di Gamba .....	8 feet.	14. Horn .....	8 feet.
11. Voix Céleste .....	8 feet.	15. Oboe and Bassoon .....	8 feet.

*Pedal Organ, CCC to F, 30 notes.*

16. Open Bass .....	16 feet.	17. Sub-Bass .....	16 feet.
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*Couplers.*

Great to Pedals.		Swell to Pedals.		Swell to Great.
Three Pedals of Combination.				

## 161. MELBOURNE, AUSTRALIA.

Description of the new organ for the Town Hall, Melbourne, Australia, by Messrs. William Hill and Son. Compass of each Manual, CC to C, 61 notes :—

*Great Organ.*

1. Double Open Diapason ...	16 feet.	10. Twelfth .....	3 feet.
2. Bourdon .....	16 feet.	11. Fifteenth .....	2 feet.
3. Open Diapason .....	8 feet.	12. Mixture, IV ranks.	
4. Open Diapason .....	8 feet.	13. Mixture, III ranks.	
5. Gamba .....	8 feet.	14. Double Trumpet .....	16 feet.
6. Stopped Diapason .....	8 feet.	15. Posaune .....	8 feet.
7. Principal .....	4 feet.	16. Trumpet .....	8 feet.
8. Principal .....	4 feet.	17. Clarion .....	4 feet.
9. Harmonic Flute .....	4 feet.		

*Choir Organ.*

18. Bourdon .....	16 feet.	23. Principal .....	4 feet.
19. Salicional .....	8 feet.	24. Gemshorn Twelfth .....	3 feet.
20. Dulcian .....	8 feet.	25. Gemshorn Harmonic .....	2 feet.
21. Gedact (metal treble) .....	8 feet.	26. Dulcian Mixture, II ranks.	
22. Gamba .....	4 feet.	27. Clarionet .....	8 feet.

*Swell Organ.*

28. Bourdon .....	16 feet.	35. Twelfth .....	3 feet.
29. Open Diapason .....	8 feet.	36. Fifteenth .....	2 feet.
30. Cone Gamba .....	8 feet.	37. Mixture, IV ranks.	
31. Pierced Gamba .....	8 feet.	38. Double Trumpet .....	16 feet.
32. Stopped Diapason (metal treble) .....	8 feet.	39. Cornopean .....	8 feet.
33. Principal .....	4 feet.	40. Oboe .....	8 feet.
34. Suabe Flute .....	4 feet.	41. Clarion .....	4 feet.

*Solo Organ.*

42. Lieblich Bourdon, tenor c .....	16 feet.	47. Glockenspiel, tenor c, II ranks.	
43. Harmonic Flute, wood bass .....	8 feet.	48. Bassoon, tenor C .....	16 feet.
44. Vox Angelica, Tenor c, II ranks .....	8 feet.	49. Clarionet .....	8 feet.
45. Flute Octaviant .....	4 feet.	50. Orchestral Oboe, tenor c .....	8 feet.
46. Piccolo .....	2 feet.	51. Vox Humana .....	8 feet.
		52. Oboe Clarion .....	4 feet.
		53. Tuba Mirabilis .....	8 feet.
		54. Tuba Mirabilis .....	4 feet.

*Pedal Organ, Compass CCC to F, 30 notes.*

55. Double Open Diapason, metal .....	32 feet.	61. Violon .....	8 feet.
56. Open Diapason, metal .....	16 feet.	62. Twelfth .....	6 feet.
57. Open Diapason, wood .....	16 feet.	63. Fifteenth .....	4 feet.
58. Bourdon .....	16 feet.	64. Mixture, III ranks.	
59. Quint .....	12 feet.	65. Tronibone .....	16 feet.
60. Principal .....	8 feet.	66. Clarion .....	8 feet.

*Couplers, &c.*

Swell to Great.	Choir to Great (Sub-Octave).	Choir to Pedal.
Swell to Great (Sub-Octave).	Solo to Great.	Great to Pedal.
Swell to Choir.	Solo to Pedal.	Swell to Pedal.

4 Composition Pedals to Great, 3 do. to Swell, 2 do. to Choir, and 4 Combination stops (by hand) to Solo Organ. Solo Tremulant. Total, 79 stops, and 4373 pipes.



## 162. ADELAIDE.

Description of the organ for the Town Hall, Adelaide, Australia, built by Hill and Son in 1876. Three Manuals, compass of each, CC to A, 58 notes, and Pedal Clavier, CCC to F, 30 notes.

*Great Organ.*

- |  |                                     |
|--|-------------------------------------|
| 1. Double Diapason, wood ... 16 feet.  | 7. Twelfth, metal ..... 3 feet.     |
| 2. Open Diapason, metal ... 8 feet.    | 8. Fifteenth, metal ..... 2 feet.   |
| 3. Open Diapason, No. 2, metal 8 feet. | 9. Full Mixture, metal, III ranks.  |
| 4. Stopped Diapason, wood.. 8 feet.    | 10. Sharp Mixture, metal, II ranks. |
| 5. Principal, metal ... 4 feet.        | 11. Posaune, metal ..... 8 feet.    |
| 6. Harmonic Flute, ,, ... 4 feet.      | 12. Clarion, ,, ..... 8 feet.       |

*Choir Organ.*

- |   |  |
|---|--|
| 13. Cone Gamba, metal... 8 feet.          | 17. Gemshorn, metal... 4 feet.         |
| 14. Dulciana (Cgrooved) ,, ... 8 feet.    | 18. Lieblich Flute, ,, ... 4 feet.     |
| 15. Voix Celeste (tenor c) ,, ... 8 feet. | 19. Flageolet, ,, ... 2 feet.          |
| 16. Lieblich Gedact, wood ... 8 feet.     | 20. Clarionet, tenor c, ,, ... 8 feet. |

*Swell Organ.*

- |   |  |
|---|--|
| 21. Lieblich Bourdon, wood... 16 feet.              | 27. Fifteenth, metal ..... 2 feet.     |
| 22. Open Diapason, metal..... 8 feet.               | 28. Mixture, metal, III ranks.         |
| 23. Pierced Gamba (Cgrooved)<br>metal ..... 8 feet. | 29. Double Trumpet, metal ... 16 feet. |
| 24. Hohl Flute, wood ..... 8 feet.                  | 30. Cornopean, ,, ... 8 feet.          |
| 25. Principal, metal ..... 4 feet.                  | 31. Oboe, ,, ... 8 feet.               |
| 26. Rohr Flute, ,, ..... 4 feet.                    | 32. Clarion, ,, ... 8 feet.            |

*Pedal Organ.*

- |   |                                     |
|---|-------------------------------------|
| 33. Double Open Diapason, wood 32 feet. | 36. Violoncello, wood ..... 8 feet. |
| 34. Open Diapason, wood ..... 16 feet.  | 37. Trombone, wood ..... 16 feet.   |
| 35. Bourdon, wood ..... 16 feet.        |                                     |

*Couplers.*

- |                         |                    |
|-------------------------|--------------------|
| 1. Swell to Great.      | 5. Choir to Pedal. |
| 2. Swell to Sub-Octave. | 6. Great to Pedal. |
| 3. Swell to Octave.     | 7. Swell to Pedal. |
| 4. Swell to Choir.      |                    |

Four Composition Pedals to Great Organ. | Three Composition Pedals to Swell Organ.  
Pneumatic action to Great and Couplers.







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